

Central Arizona Groundwater Replenishment District Membership in the Tucson Active Management Area 2005-2009



**Prepared for Pima County Regional Flood Control District
Submitted September 2011
by Pima Association of Governments**

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BACKGROUND

In 1980, the Arizona Legislature passed the Groundwater Management Act to protect the state's groundwater supply from over pumping. The Act included Assured Water Supply (AWS) rules, which were administered by the Arizona Department of Water Resources (ADWR). AWS rules require that providers, land owners and developers within Active Management Areas (AMAs) demonstrate that a 100-year supply of water is available for water service areas and new housing subdivisions. The Tucson AMA (TAMA) covers nearly 4,000 square miles in parts of Pima, Pinal and Santa Cruz counties. Over 300,000 acre-feet of water is used in the TAMA annually. The TAMA goal is to reach safe yield by 2025.

Initially, water supplies from aquifers could be used to satisfy the AWS rules, as long as the groundwater levels were not projected to drop more than 1,000 feet below the land surface within 100 years. Over time, it became apparent that renewable water supplies would be needed to support new growth and reduce aquifer depletion. In addition, safe yield would be difficult to reach if developers and water providers did not have access to additional renewable supplies. To address these concerns, the state Legislature, in 1993, gave groundwater replenishment authority to the Central Arizona Water Conservation District (CAWCD), which also oversees the Central Arizona Project (CAP). This led to the creation of the Central Arizona Groundwater Replenishment District (GRD). The GRD serves Maricopa, Pinal and Pima counties, which include three AMAs – Phoenix, Pinal and Tucson.

Under revised AWS rules, which took effect in 1995, land owners and water companies could demonstrate AWS compliance by joining the GRD. Membership allows land owners and water companies to contract with the GRD to replenish groundwater pumped in exceedance of their pumping allowance. However, if a Member Land (ML) or Member Service Area (MSA) does not exceed their pumping allowance, they may not actually need to have the GRD to recharge for them. As a result, the GRD's replenishment obligation for that entity may vary from year to year. The 2009 obligated volumes are reported in the findings section of this report. The GRD purchases "excess" CAP water to fulfill replenishment obligations and conducts replenishment within three years at the CAWCD recharge facility nearest to a member's location. CAWCD recharges at three sites in the TAMA – Avra Valley, Pima Mine Road and Lower Santa Cruz. Combined, the three facilities have a cumulative permitted recharge capacity of 91,000 acre-feet per year.

The GRD serves two types of members – Member Lands (ML), which are subdivisions, and Member Service Areas (MSA), which are water providers such as Tucson Water, and private water companies, such as Metropolitan Domestic Water Improvement District. Homeowners in ML subdivisions pay the GRD recharge costs through their property taxes, while

homeowners served by MSAs pay recharge costs as part of their monthly water bills. The amount a homeowner pays will vary depending on the amount of groundwater used. Replenishment costs will increase in the future, as the availability of excess CAP water declines and as additional renewable water supplies are needed.

PURPOSE

The purpose of this project is to provide regional managers and the public with updated comprehensive maps and accompanying datasets for GRD members within the TAMA in the context of its impact patterns on AWS. These datasets are available in raw format from PAG and also will be provided on the Pima County Map Guide Web site for interactive viewing. In the past, CAP also has used this report to address boundary reconciliation issues.

METHODOLOGY

Pima Association of Governments (PAG) first reported on GRD membership in Pima County through a 2006 memo and report to Pima County. Since that time, PAG has updated the report several times. In 2007, the geographic area was expanded from Pima County to the entire TAMA. This current 2011 report provides status updates including an analysis of changes in membership between 2005 and 2009. The report now includes all of the TAMA's non-member service providers and subdivisions within Pinal County, in addition to our regular Pima County data. As shown in the 2009 GRD membership map (Figure 1), water service boundaries have been updated to represent parcels served, to correspond with ADWR's representation of members. Previously, water service providers were delineated based on buffered water lines.

The datasets used for this project were provided by Pima County, Central Arizona Association of Governments (CAAG), GRD and CAP. All of these datasets are current to December 2009. These data were the most up-to-date available as of March 2011. Use/obligation data are due from members at the end of March in the year after aquifer withdrawals take place. CAP usually has updates processed and available by the end of the year following that March. PAG merged these data into new, more comprehensive shapefiles and narrowed the extent to include only the TAMA. Due to variation within the data sources, some polygons within the shapefiles do not include all attribute data. ML subdivision and MSA data sources and the provided attributes are listed in Table 1, which states how current each dataset is. Table 2 lists attributes of the GRD ML shapefiles and associated database tables assembled by PAG.

The following sections describe how shapefiles were developed for Member Lands, Member Service Areas, and Non-Member Water Companies. In each case, PAG merged and filtered data sets from various sources and then clipped the files to the TAMA boundary.

Figure 1. GRD members in the Tucson Active Management Area as of 2009

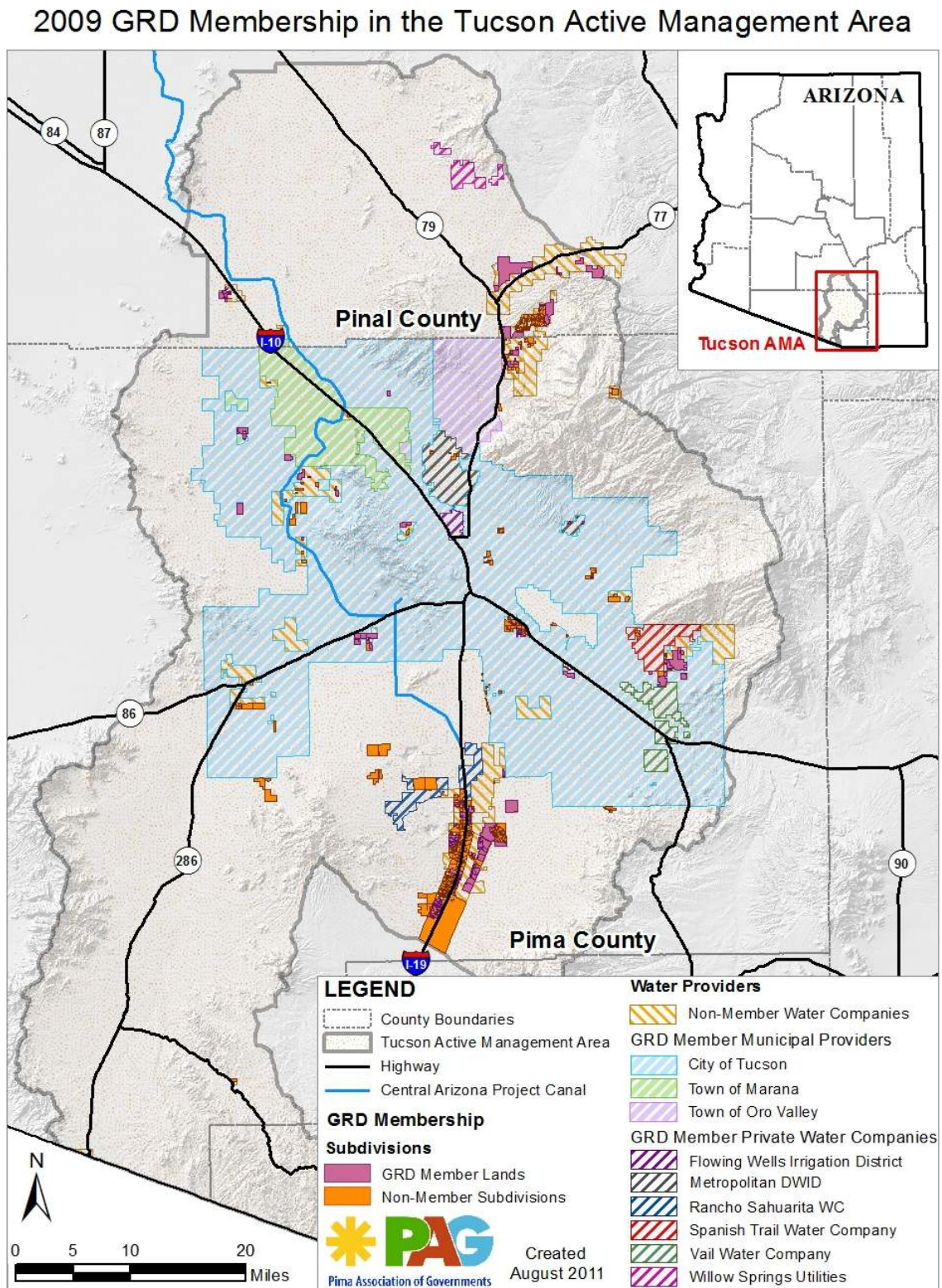


Table 1. Data sources

Subdivisions and Member Lands

File	Source	Contact	Currentness Reference*	Attributes Provided	Key Fields
GRD_ML_Subdivisions.shp, For Mead 2009 RY.xls	Central Arizona Project (CAP)	Sent by Glenn Emanuel, Sr. GIS Analyst (CAP); Send questions to Candi Cox (GRD)	Up to date as of Dec. 2009	Location of all GRD Member Land subdivisions, Member Land number, GRD number, Member Land Name, GIS calculated acres, water provider, division name, Active Management Area, County, total lots, date member joined, original groundwater allowance allotted, Certificate of Assured Water Supply number, 2009 replenishment obligation, previous land use	Member Land Subdivision Name, Member Land Number, and GRD number, Certificate number
subdiv.shp	Pima County	Linda Coon (PC Development Services)	Up to date as of June 2010	Location of all subdivisions in Pima County, subdivision name, plat book page, jurisdiction, total lots, block count, recording date	Subdivision name, Plat book page
Subdivisions.shp, Subdivisions.dbf	Central Arizona Association of Governments (CAAG)	Angela Gotto (CAAG)	Up to date as of June 2007	Location of all subdivisions in Pinal County, subdivision name, acquisition date	Subdivision name

Member Service Areas

File	Source	Contact	Currentness Reference*	Attributes Provided	Key Fields
TAMA_Water_Plan ning_Areas.shp, For Mead 2009 RY.xls	Central Arizona Project (CAP)	Sent by Glenn Emanuel, Sr. GIS Analyst (CAP); Send questions to Candi Cox (GRD)	Up to date as of Dec. 2009	Location of water companies in the TAMA, water provider name, update source, water provider number, GRD membership status, county, AMA, member date, designation number, 2009 replenishment obligation	Water provider name

*The currentness reference shows how up-to-date each data set is.

Table 2. Attributes of the GRD Member Lands 2009 dataset

Attribute Name	Meaning
2009_OBLIG	2009 Replenishment Obligation in acre-feet per year - Sum of Obligation - Amount over groundwater allowance set by AWS rules
ACRES	Total acres in subdivision Member Land
AMA_	Active Management Area
CAGRD_NO	Central Arizona Groundwater Replenishment District Member Land Number
CAGRD_LAST	Last 4 digits of GRD number
CERTIFICAT	Certificate number of Assured Water Supply
COUNTY	County name
DIVISION_N	Division Name
MEMBER_DAT	Date Member joined GRD
ML_NAME	Member Land Name (i.e. GRD Subdivisions in the TAMA)
ML_NO	Member Land Number
NOTES	Parcel boundary information
ORIGINAL_G	Original groundwater allowance (i.e. allocation) in acre-feet per year
PREV_LAND	Previous land use
REPORT_YEA	GRD Reporting Year for Obligation
Shape_Area	Area of feature - automatically generated
Shape_Leng	Length of feature - automatically generated
SOURCE	BND Source – GIS figure
TOTAL_LOTS	Total number of parcel lots - Lot Count
WATER_PROV	Water Provider Name

Methodology for Member Lands:

CAP provided PAG with a shapefile containing the location of every GRD ML subdivision, along with a spreadsheet containing attribute data for all ML subdivisions in Pima and Pinal counties. The shapefile and spreadsheet were then merged by matching the ML number, and MLs outside of the TAMA were excluded. Appendix 1 includes all the MLs in a shortened version of the GRD ML data table for viewing in this report. The full data set includes 22 attribute fields contained within the shapefile 'GRD_ML_Subdivisions_TAMA.'

PAG created various graphics to show ML membership growth patterns in the TAMA. The symbology of the ML subdivision shapefile was based on the year each ML joined the GRD, with each color on the map, ranging from yellow (1995) to blue (2009), representing a different year. This growth pattern is displayed geographically on Figure 2 and is also shown in a graph in Figure 3.

In addition, PAG created a simplified map and dataset to show which subdivisions became MLs between 2005 and 2009 and which subdivisions had been removed from GRD membership during that time period. These are displayed in Figure 4 and are listed in Tables 3 and 4.

PAG visually determined which subdivisions extend beyond areas covered by the GRD through MSAs or ML subdivisions. These subdivisions are listed in Table 5.

Methodology for Non-Member Subdivisions:

Pima County provided a shapefile of all subdivisions in Pima County and CAAG provided a shapefile of all subdivisions in Pinal County, which PAG merged together. PAG created a non-GRD member subdivision shapefile by excluding GRD Member Lands and subdivisions served by GRD Member Service Areas. To make the file relevant to AWS requirements, the file was clipped to exclude subdivisions outside of the TAMA. Due to variation in naming conventions between county and CAP sources, non-GRD member subdivisions were determined based on a lack of spatial overlap with GRD member locations. Non-member subdivisions are listed in Appendix 2.

A separate shapefile was created to display non-GRD member subdivisions which were built between 1995 and 2009. These subdivisions are listed in Appendix 3.

Methodology for Member Service Areas:

CAP provided a shapefile of all water providers within the TAMA, including information on GRD membership status. A spreadsheet listing the name, membership date and the 2009 groundwater obligation for GRD MSAs also was included. PAG excluded non-member water companies to create a shapefile of MSAs located within the TAMA. The MSA shapefile was merged with data from the spreadsheet by matching Member Area name. MSAs are listed in Table 6.

Methodology for Non-Member Water Companies:

CAP provided a shapefile of all water providers within the TAMA. PAG excluded MSAs to create a shapefile of non-member water companies located within the TAMA. Non-member water companies are listed in Table 7.

Figure 2. GRD Member Lands by membership year

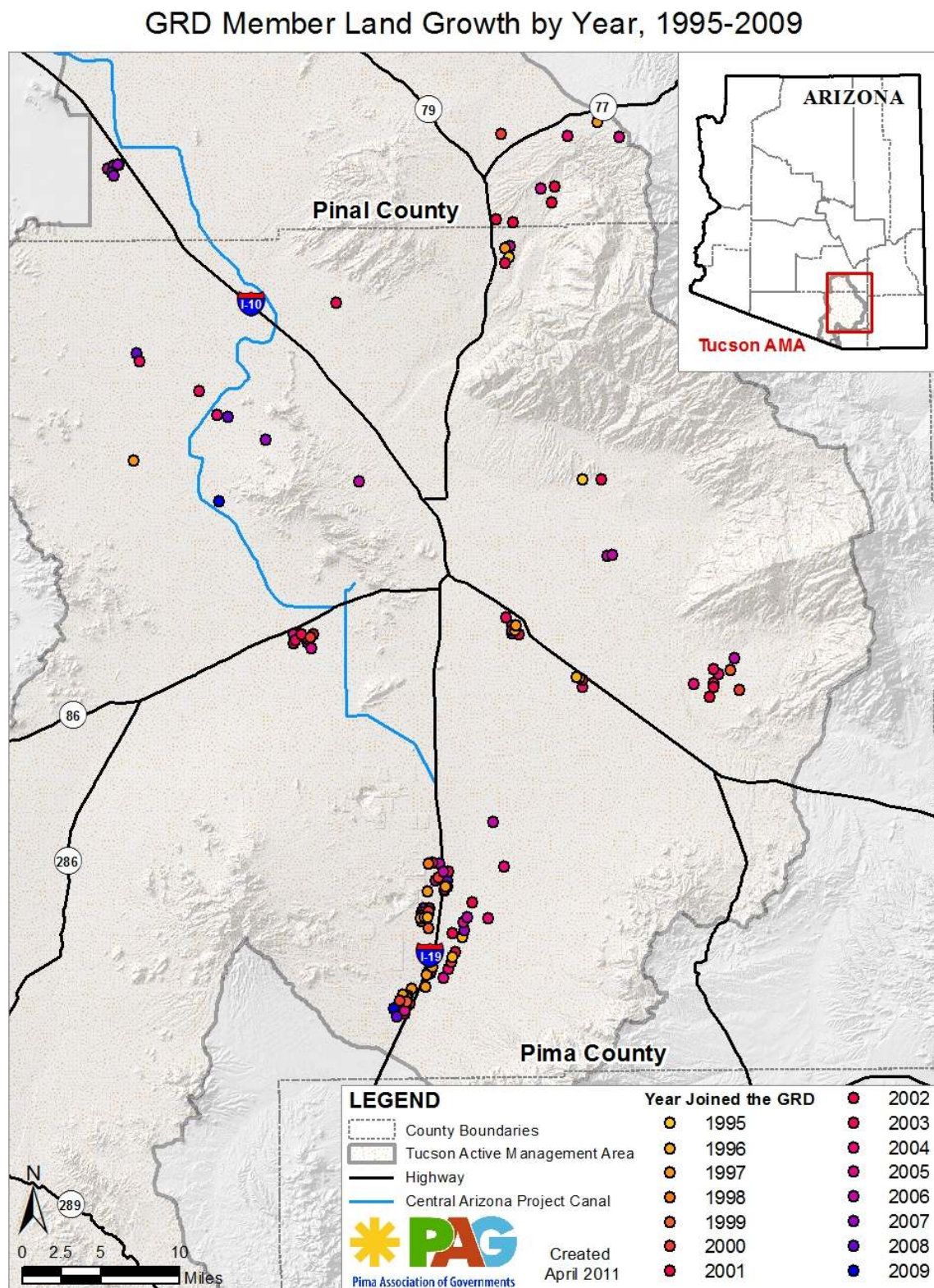


Figure 3. Growth in GRD Member Lands by year

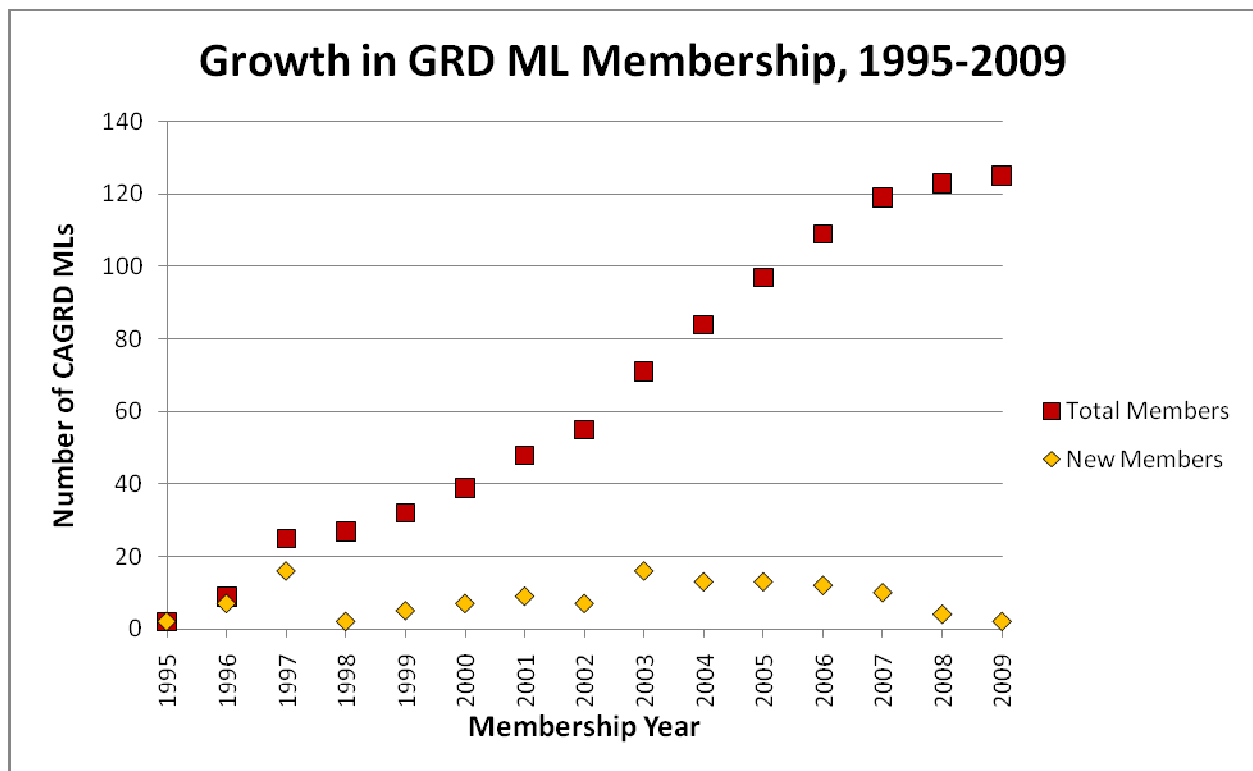


Figure 4. Changes in GRD membership between 2005 and 2009

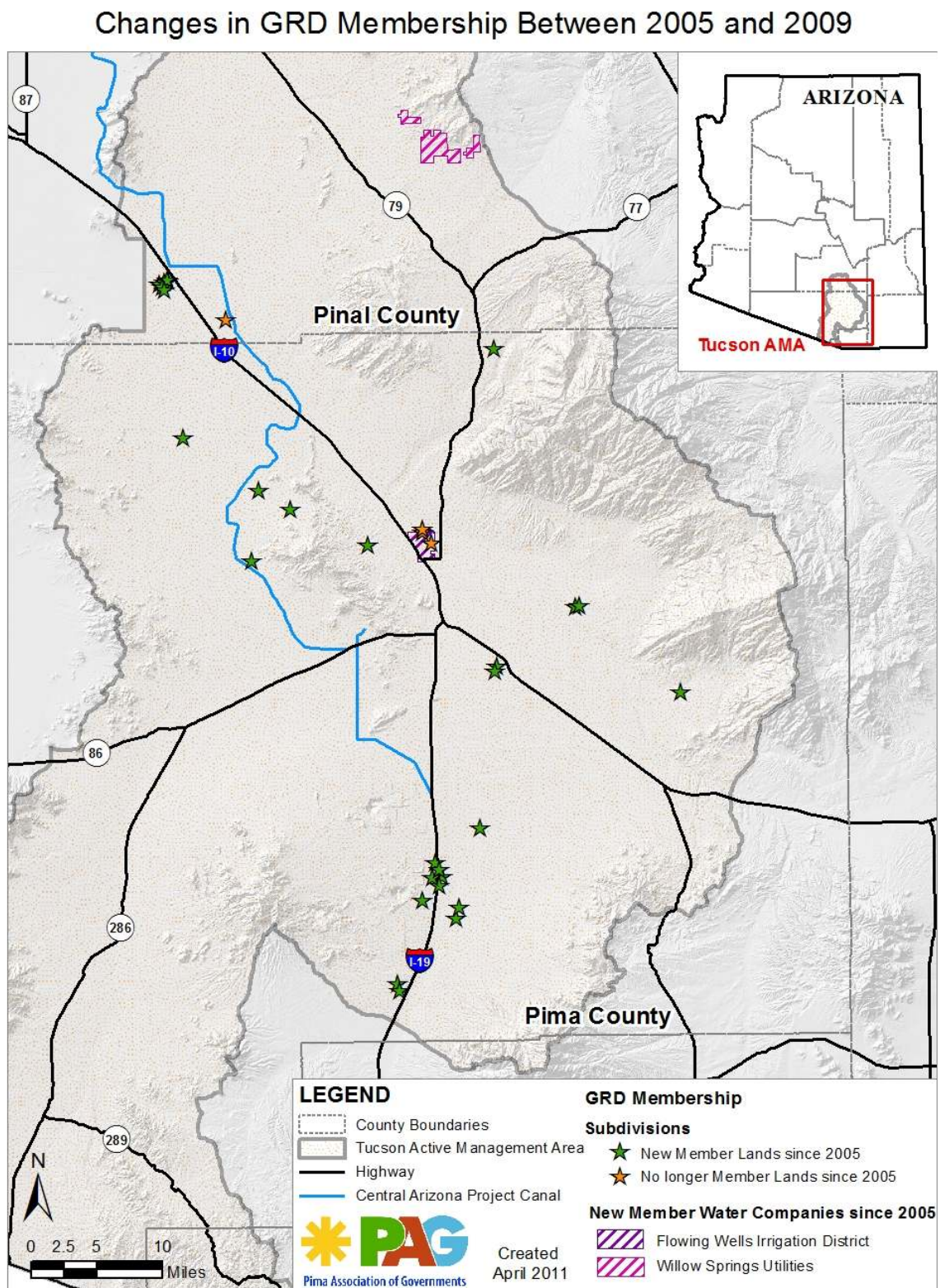


Table 3. Subdivisions within the TAMA which became MLs between 2005 and 2009

Member Land Name	CAGR ID	County	Total Lots	Member Date
Arcadia, Lots 1-40 (Phase 1), and Lots 41-190 (Phase II) and Common Areas "A" (Private Streets) & "B" (Functional Open Space & Drainage)	009-36-0974	Pima	190	7/13/2006
Avra Verde	140-36-1212	Pima	8	4/17/2009
Bluff Creek	037-36-1088	Pima	40	12/21/2006
Camino Seco Village Residential Cluster Project Lots 1-35 & Common Areas A & B	113-36-0973	Pima	35	7/14/2006
Canoa Ranch Block 27 South, Lots 1-356, Common Areas "A" & "B"	013-36-1086	Pima	348	10/10/2008
Cottonwood Ranch Estates, Lots 1-219 and Common Area "A"	053-36-1182	Pima	219	4/21/2008
Desert Point 2	027-36-1077	Pima	45	2/22/2007
Desert View Plaza, Lots 1-7	027-36-1115	Pima	7	5/3/2007
La Jolla Verde Commercial Center	007-36-1161	Pima	20	3/20/2008
La Joya Verde Rancho Abrego III, Lots 1 through 15 and Common Area "A"	007-36-1127	Pima	15	6/21/2007
Las Campanas, Block C Lots 1-283 and Common Area A	007-36-1149	Pima	283	8/24/2007
Los Arroyos Resubdivision, Lots 1-145 and 150-167 and Common Areas "A1-A3"& "B1-B2"	007-36-0933	Pima	163	5/12/2006
Madera Highlands, Villages 1-10 and 15 and Common Areas "D", "E" and "F"	005-36-0969	Pima	757	8/11/2006
Madera Highlands, Villages 27 and 29 and Common Areas "D", "E", "F", and "G"	005-36-1151	Pima	119	8/31/2007
Montanas Del Sol, Lots 1-49 & Common Area "A"	024-36-1122	Pima	48	5/24/2007
Presidio Trail Lots 1-50 & Common Area "A-1" through "A-5" & "B-1"	113-36-0961	Pima	50	7/10/2006
Red Rock Village 1	135-35-0984	Pinal	453	8/28/2006
Red Rock Village 2	135-35-0983	Pinal	552	2/23/2007
Red Rock Village IIA	135-35-0985	Pinal	20	8/28/2006
Red Rock Village III	135-35-1156	Pinal	87	12/3/2007
Red Rock Village IV	135-35-1120	Pinal	105	5/10/2007
Red Rock Village V	135-35-1157	Pinal	116	11/6/2007
Sahuarita Acres	005-36-1089	Pima	71	12/21/2006
Santa Cruz Meadows, Lots 1-239 and Common Areas A, B and C	032-36-1000	Pima	239	9/5/2006
Santa Rita Villas Lots 1-218, Block 1	007-36-1087	Pima	218	11/13/2006
Sweetwater Canyon, Lots 1-46	119-36-1092	Pima	46	12/13/2006
The Estates at Canoa Ranch Lots 1-28	013-36-1215	Pima	26	5/27/2009
Vista del Sol, Lots 1-15 and Common Area 'A'	024-36-1091	Pima	15	1/17/2008

Table 4. Subdivisions within the TAMA no longer classified as MLs between 2005 and 2009

Member Land Name	CAGR ID	County	Total Lots	Member Date	Reason for Removal
Desert Living Estates	170-35-0691	Pinal	60	8/15/2005	Unknown
Roger Square Townhomes	031-36-0127	Pima	10	12/26/1997	Now covered by FWID*
Sagewood	031-36-0330	Pima	58	8/30/2000	Now covered by FWID*
Shamrock Center Block 1, Lots	031-36-0862	Pima	16	10/13/2005	Now covered by FWID*

*Flowing Wells Irrigation District

Table 5. Subdivisions partially covered by an ML or MSA, 2009

Subdivision Name	Plat Book Page	Jurisdiction	Total Lots	Rec. Date
BLACK HORSE (1-411)	57036	PIMA	411	06/24/2003
COTTONWOOD RANCH ESTATES (1-219)	64003	COT	219	09/19/2008
NOB HILL ADDITION	02005	COT	14	04/07/1904
DRAKE'S ADDITION	03040	COT	5	09/01/1913
DIABLO VILLAGE ESTATES (1-511)	28033	PIMA	511	12/31/1977
ROCKING K SOUTH BLOCKS 1-14	64085	PIMA	0	09/22/2009
PIMERIA ALTA ESTATES (BLOCKS 1 & 2)	38009	PIMA	0	10/17/1984
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
MADERA HIGHLANDS BLKS 1-29	59008	SAH	0	11/10/2004
MADERA HIGHLANDS VILLAGES 27 & 29 (1-119)	63029	SAH	119	11/29/2007

Table 6. GRD Member Service Areas as of December 2009

Member Area	County	Membership Date	2009 Obligation (AF/yr)
Flowing Wells Irrigation District	Pima	5/27/2008	0
Metropolitan Domestic Water Imp. District	Pima	12/13/1995	0
Rancho Sahuarita Water Company	Pima	7/26/1999	532
Spanish Trail Water Company	Pima	12/14/1997	67
Town of Marana	Pima	12/12/1995	672
Town of Oro Valley	Pima	3/18/1997	2139
Tucson	Pima	12/19/1996	0
Vail Water Company	Pima	11/20/1995	0
Willow Springs Utilities, LLC	Pinal	10/22/2006	0

Table 7. Non-member water providers, 2009

Water Provider Name	Water Provider Name
Anway Manville Water Company	Mirabell Water Company
Arivaca Townsite Co-op Water Company	Mount Lemmon Domestic Water Improvement District
Arizona Water Company - Oracle	Quail Creek Water Company
Avra Water Cooperative	Rancho Del Conejo Water Community Cooperative
Community Water Company of Green Valley	Ray Water Company
Desert Living Estates Homeowners Association	Red Rock Utilities
Despoblado Water Company	Ridgeview Utility Company
Diablo Village Water Company	Rillito Water Users
Dome Well Corporation	Rincon Creek Water Company
E and T Water Company	Rincon Ranch Estates Water Company
Farmers Water Company	Rincon Water Company
Francesca Water Company	Saguaro Water Company
Goodman Water Company	Sandario Water Company
Green Valley Domestic Water Improvement District	Sasabe Water Company
Halcyon Acres Water Company	Thim Utility Company
La Casita Water Company	Thim Water Corporation
Lago Del Oro Water Company	Thunderhead Water Company
Las Quintas Serenas Water Company	Tierra Linda Homeowners Association
Lazy C Water Service	Tortolita Water Company
Loeffler Lane Homeowners Association	Viva Development Corporation
Los Cerros Water Company	Voyager Water Company
Lyn-Lee Water Company	Winterhaven Water Company
Marana Domestic Water Improvement District	Worden Water Company
Mesaland Water Company	

FINDINGS

Key findings of this investigation include:

- Many ML subdivisions are clustered, with a large cluster located in the Sahuarita area
- In the TAMA, only 7.2 percent of subdivisions are not covered under the GRD
- MSAs within the TAMA serve nearly 5,500 subdivisions

As of December 2009, a great majority of subdivisions in the TAMA were connected to the GRD either as a ML or through a MSA. In 2009, the total replenishment obligation of all members, both ML and MSA, was 5,172 AF, or 5.7 percent of the total 91,000 AF capacity of the three CAWCD facilities at which the GRD performs recharge activities. The locations of these facilities are displayed in Figure 5.

This investigation shows that the GRD enrollment rate has decreased in recent years. A total of 89 percent of all subdivisions in the TAMA are served by the GRD through MSAs, which cover the bulk of the Tucson urban area and extends to the Pinal County line. ML subdivisions are distributed in clusters throughout the region and have a wide range of groundwater allowances and replenishment obligations. There may be some newer subdivisions which are only partially covered under MSA boundaries (Table 5).

The following sections provide details about Member Lands, Non-Member Subdivisions, Member Service Areas and Non-Member Water Companies.

Member Lands:

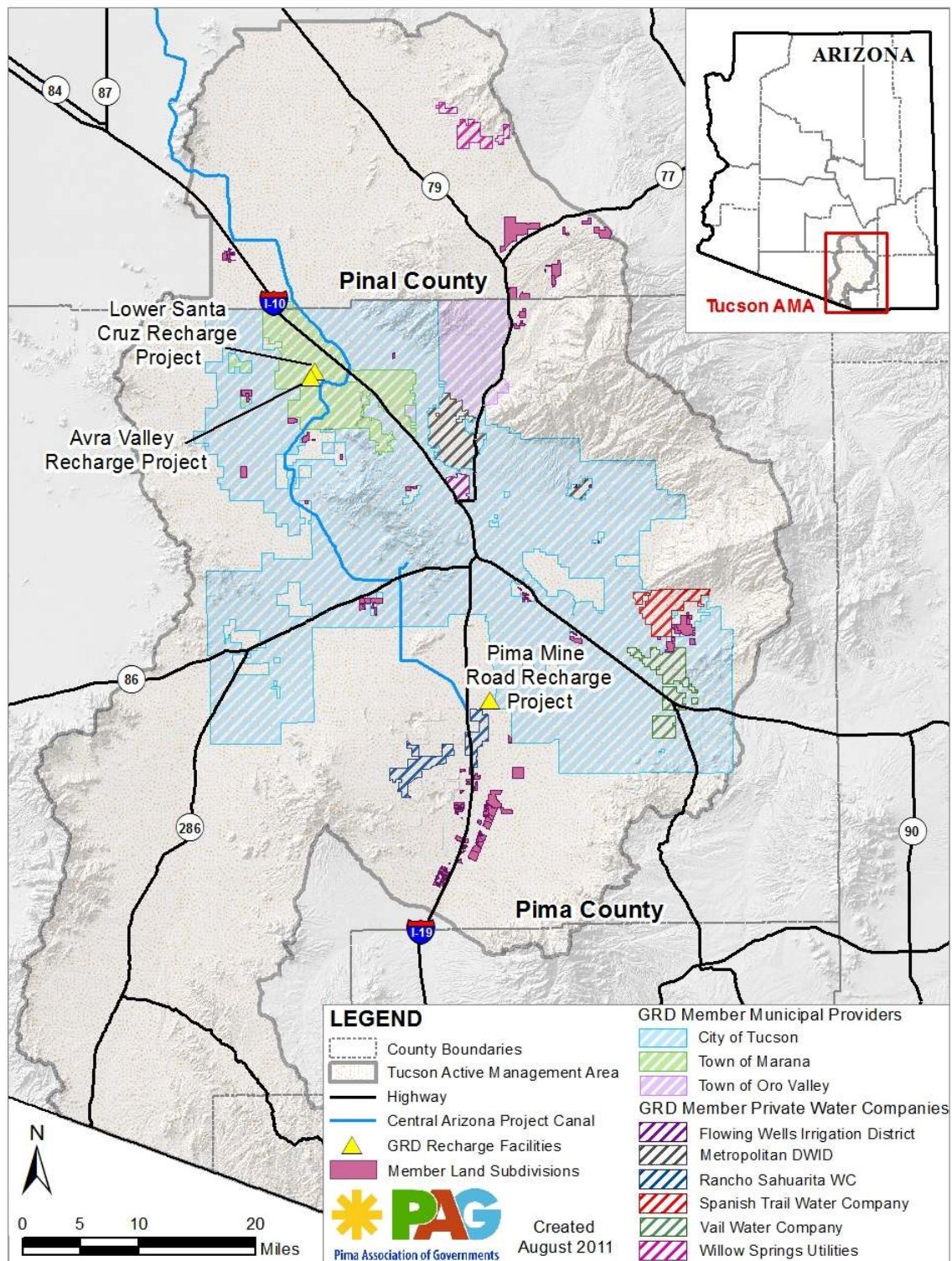
As of December 2009, there were 125 GRD ML subdivisions located within the TAMA. Of these ML subdivisions, 110 lie in Pima County, which spans most of the AMA, and 15 lie in Pinal County. There are no ML subdivisions in the Santa Cruz County portion of the TAMA. The TAMA's ML subdivisions include a total of 26,460 lots. ML subdivisions are listed in Appendix 1.

In the early 1990s, ML growth spread out into smaller clusters in the south and eastern parts of Pima County near Sahuarita, near Ryan Airfield, north of Oro Valley, and northeast of Vail (Figure 3). Overall, the majority of ML subdivisions are clustered in Sahuarita, where the earliest MLs were constructed. Most recently, ML growth has been observed in the northern parts of Pima County near Picacho Peak, in the Picture Rocks and Avra Valley areas, and in southern Sahuarita.

Between 2005 and 2009, 28 subdivisions in the TAMA attained GRD ML status, with the number of new members tapering off over the last two years. Of the new members, 22 are located in Pima County and six are located in Pinal County. On average, about eight MLs have joined the GRD per year within the TAMA. New member subdivisions are evenly distributed throughout the TAMA, with small clusters in the Sahuarita area and in a section of Pinal County near Picacho Peak (Figure 3). Subdivisions which became MLs between 2005 and 2009 are displayed in Figure 4 and are listed in Table 3.

Figure 5. Recharge project and GRD member locations in the TAMA

CAWCD Recharge and GRD Member Locations, as of 2009



Between 2005 and 2009, four subdivisions in the TAMA were removed from GRD ML membership. The three Pima County ML subdivisions became covered under the Flowing Wells Irrigation District MSA when the water company became an MSA in 2008. The fourth subdivision, which lost ML status, was located in Pinal County, but the reason for removal is not known. These subdivisions are shown in Figure 4 and are listed in Table 4.

In 2009, the total groundwater allowance for GRD MLs in the TAMA was 110,743 AF. GRD members have a wide range of groundwater allowances and replenishment obligations. Of the 125 MLs in the TAMA, 27 had GRD replenishment obligations of 0 acre-feet in 2009. This means that nearly 22 percent of MLs in the TAMA did not exceed their annual groundwater allowance. If groundwater use by these MLs exceeds their allowances in the future, the GRD will begin recharging an amount equivalent to the excess pumped. Groundwater allowances for MLs within the TAMA range from 30 to 23,934 acre-feet per year. In 2009, replenishment obligations totaled 1,863 AF for MLs. As a point of interest, approximately 14 percent of the TAMA's MLs were built on land previously used for agriculture. ML groundwater allowances and 2009 replenishment obligations are listed in Appendix 1.

In 2009, ten subdivisions in the TAMA were partially covered by the GRD under existing MSA or ML boundaries. These subdivisions are listed in Table 5.

Non-Member Subdivisions:

As of December 2009, there were 437 subdivisions, or 7.2 percent of subdivisions in the TAMA, which were not GRD members and were not covered by MSAs. Of these, 84 were built after 1995, when the GRD was established. A majority of the non-GRD subdivisions built during this time period were built in the Sahuarita/Green Valley area. These subdivisions were not located near any existing MSAs as of 2009. Determining why these subdivisions are not covered by the GRD was beyond the scope of this investigation. Non-member subdivisions are listed in Appendix 2 and non-members constructed after 1995 are listed in Appendix 3.

Member Service Areas:

As of December 2009, there were nine MSAs in the TAMA. Most MSAs within the TAMA fall in Pima County, with only Willow Springs Utilities and a portion of Town of Marana Water serving in Pinal County. Willow Springs Utilities and Flowing Wells Irrigation District are the most recent additions to the GRD, joining in 2006 and 2008, respectively. All other MSAs joined between 1995 and 1999. Three of the MSAs are municipal water providers, while six are private water companies. In total, MSAs within the TAMA serve 5,415 subdivisions. MSAs are listed in Table 6.

In 2009, four MSAs in the TAMA, Rancho Sahuarita Water, Spanish Trail Water, Marana Water and Oro Valley Water, had a total GRD replenishment obligation of 3,410 acre-feet. The remaining five MSAs, Flowing Wells, Metro Water, Tucson Water, Vail Water and Willow Springs Utilities, had GRD replenishment obligations of 0 acre-feet. Tucson Water, as well as some other service providers, also has long-term subcontracts with CAP to provide substantial CAP allocations outside of the GRD system. Tucson Water recharges CAP water at the City of Tucson's Central Avra Valley Storage and Recovery Project (CAVSARP) facility in order to stay within its annual groundwater pumping allowance. It may purchase additional

water replenishment as an MSA under the GRD program. MSA replenishment obligations are listed in Table 6.

Non-Member Water Companies:

As of December 2009, there were 47 non-member water companies in the TAMA. While these companies are not GRD members, 16 of these companies serve ML subdivisions which are covered under the GRD. Non-member water providers are listed in Table 7.

CONCLUSIONS

The Tucson Active Management Area currently includes a total of 125 Member Lands in addition to nine Member Service Areas. All of these areas are, at least in part, dependent upon the Groundwater Replenishment District in order to meet their Assured Water Supply (AWS) requirements. Many of the member lands are located in areas that are near some of the 437 non-member subdivisions, which also draw on groundwater within the AMA. The use of the GRD by so many Member Lands and Member Service Areas was not predicted when the GRD was originated. The initial expectation was that use of the program would be fairly limited.

Several concerns arise when considering the widespread dependence on the GRD to meet AWS requirements in the TAMA. According to the GRD principles, the water used by the subdivision in excess of that allowed under AWS rules must be recharged by the GRD at the nearest CAWCD recharge facility within three years. Although the water is technically being recharged in the AMA, there are concerns that the recharge will not benefit areas where groundwater is actually pumped. Because recharge facilities are generally located at some distance, and often are down gradient from the subdivisions, the wet water being recharged does not benefit the aquifers beneath the subdivisions. This is acceptable under the rules, as long as drawdown does not exceed 1,000 feet below land surface at the development site. However, continual pumping at subdivision sites may result aquifer depletion, potentially causing subsidence in the area of withdrawal. Subsidence can cause major damage to property and infrastructure throughout the region.

Currently, the GRD depends on buying excess water to meet its obligations. Over time, as water utilities use more of their allocation, there will be less excess water available for purchase by the GRD. In addition, if drought limits Colorado River supplies, excess water will be one of the first uses to be eliminated by CAP when drought reductions take place. These situations raise concerns about whether the GRD will be able to purchase enough water to meet its replenishment obligations over the long term.

As noted in this report, some subdivisions built after 1994 are not GRD members, either as MLs or as customers of MSAs. It was beyond the scope of this investigation to contact or otherwise research how these subdivisions were able to meet the AWS rules without joining the GRD. It is possible that these subdivisions are as yet undeveloped or they must have access to another renewable water resource unconnected to CAWCD recharge projects.

PAG recommends continued tracking of GRD-dependent subdivisions in the TAMA. Continued involvement in processes such as ADWRs Groundwater Users Advisory Committee and other regional water forums will help our area stay informed about continued GRD expansion and how successfully the GRD is meeting its replenishment goals. In addition, it would be useful to investigate and set up ongoing tracking systems to monitor new subdivisions that meet AWS requirements outside of the GRD system.

Appendix 1

GRD Member Lands in the TAMA, 1995-2009

Central Arizona Groundwater Replenishment District Membership
in the Tucson Active Management Area
2005-2009

Appendix 1. GRD Member Lands in the TAMA, 1995-2009

**Additional attributes associated with this data did not fit in the chart. Please see digital file for full dataset (cagrd_subdivisions_2009)*

Member Land Name	CAGRD ID	Date Member Joined	2009 Obligation (AF/yr)	Original Groundwater Allowance (AF/yr)	AWS Certificate ID	Water Provider	Previous Land Use	County	Acres	Total Lots
A Resubdivision of Block B of La Joya Verde	007-36-0774	6/17/2005	7.86	251.04	27-401602	Community Water Company of Green Valley	Non-Ag	Pima	17	84
Arcadia, Lots 1-40 (Phase 1), and Lots 41-190 (Phase II) and Common Areas "A" & "B"	009-36-0974	7/13/2006	0.00	3681.12	27-402109	Lago Del Oro Water Company, Inc.	Non-Ag	Pima	187	190
Avra Verde	140-36-1212	4/17/2009	0.00	29.52	27-700602	Sandario Water Company	Non-Ag	Pima	38	8
Avra Vista, Lots 1-64	053-36-0418	10/29/2003	7.70	212.16	27-401073	Marana Domestic Water Improvement District	Non-Ag	Pima	69	64
Black Horse	056-36-0453	9/9/2002	57.88	1226.80	27-400705	Los Cerros Water Company, Inc.	?	Pima	169	414
Bluff Creek	037-36-1088	12/21/2006	0.00	135.84	27-500011	Saguaro Water Company	Non-Ag	Pima	196	40
Caddis Haley Estates Lots 1-161 & Common Area A	046-36-0625	7/8/2004	1.86	444.56	27-401269	Diablo Village Water Company	Non-Ag	Pima	31	161
Camino Seco Village Residential Cluster Project Lots 1-35 & Common Areas A & B	113-36-0973	7/14/2006	0.00	94.32	27-402098	Halcyon Acres Annex No. 2 Water Co., Inc.	Non-Ag	Pima	5	35
Canoa Northwest, Lots 1-166	013-36-0256	10/18/1999	18.15	636.82	27-400144	Green Valley Domestic Water Improvement District	Non-Ag	Pima	81	140
Canoa Northwest, Lots 167-328, Common Areas A, B & C	013-36-0312	5/9/2000	19.46	645.00	27-400289	Green Valley Domestic Water Improvement District	Non-Ag	Pima	95	161
Canoa Preserve	005-36-0846	9/1/2005	0.00	307.28	Incomplete	Farmers Water Co.	Ag	Pima	347	84

Member Land Name	CAGR ID	Date Member Joined	2009 Obligation (AF/yr)	Original Groundwater Allowance (AF/yr)	AWS Certificate ID	Water Provider	Previous Land Use	County	Acres	Total Lots
Canoa Ranch Block 11	013-36-0509	11/12/2003	3.83	47.84	27-400896	Green Valley Domestic Water Improvement District	Ag	Pima	6	17
Canoa Ranch Block 21, Lots 1-60 and Common Areas A&B	013-36-0503	3/28/2003	6.26	148.40	27-400875	Green Valley Domestic Water Improvement District	Ag	Pima	21	60
Canoa Ranch Block 27 South, Lots 1-356, Common Areas "A" & "B"	013-36-1086	10/10/2008	0.00	847.44	27-500014	Green Valley Domestic Water Improvement District	Ag	Pima	117	348
Canoa Ranch Block 28	013-36-0526	12/17/2003	15.55	421.76	27-400935	Green Valley Domestic Water Improvement District	Non-Ag	Pima	62	193
Canoa Ranch Blocks 19 & 20, Lots 1-99 and CA A&B (Canoa Ranch Blocks 19 & 20, Lots 61-160 and CA A & B)	013-36-0507	4/25/2003	10.30	309.60	27-400883	Green Valley Domestic Water Improvement District	Non-Ag	Pima	41	99
Canoa Ranch Blocks 22 and 27, Lots 1-140 and Common Areas "A" & "B"	013-36-0734	4/8/2005	7.88	395.68	27-401564	Green Valley Domestic Water Improvement District	Ag	Pima	40	140
Canoa Ranch Blocks 8, 9 and 15	013-36-0603	6/9/2005	18.54	977.52	27-401188	Green Valley Domestic Water Improvement District	Ag	Pima	42	53
Cantera, an RCP Subdivision	027-36-0808	8/26/2005	0.00	456.48	27-401727	Ray Water Company	Non-Ag	Pima	28	143
Canyon Ranch Estates II	010-36-0434	5/17/2002	2.65	96.80	27-400666	Metropolitan Domestic Water Improvement District	Non-Ag	Pima	23	20

Member Land Name	CAGRD ID	Date Member Joined	2009 Obligation (AF/yr)	Original Groundwater Allowance (AF/yr)	AWS Certificate ID	Water Provider	Previous Land Use	County	Acres	Total Lots
Colonia Real Lots 1-50	005-36-0617	5/5/2004	2.03	190.16	27-401210	Farmers Water Co.	Ag	Pima	216	50
Colonias La Canada, Lots 83-219	032-36-0128	3/10/1998	24.59	556.00	27-400488	Las Quintas Serenas Water Company	Non-Ag	Pima	48	137
Copper Hill Estates	001-35-0616	8/3/2004	0.00	150.96	27-401208	Arizona Water Company	Non-Ag	Pinal	96	61
Coronado Reserve Lots 1-260, Excluding Lots 86-88, 90-95, 97-105	001-35-0794	6/15/2005	0.00	1037.60	27-401640	Arizona Water Company	Non-Ag	Pinal	660	242
Coronado Ridge	001-35-0087	11/13/1997	1.30	261.00	27-300280	Arizona Water Company	Non-Ag	Pinal	160	60
Cottonwood Ranch Estates, Lots 1-219 and Common Area "A"	053-36-1182	4/21/2008	0.00	897.52	27-700484	Marana Domestic Water Improvement District	Non-Ag	Pima	254	219
Coyote Creek	037-36-0248	10/18/1999	29.24	2249.85	27-400095	Saguaro Water Company	Non-Ag	Pima	985	395
De Anza Links	005-36-0577	12/26/2003	2.37	69.06	27-401136	Farmers Water Co.	Ag	Pima	8	22
De Anza Links II, Lots 1-17 Common Areas A & B	005-36-0860	12/14/2005	1.31	52.16	27-401810	Farmers Water Co.	Non-Ag	Pima	4	17
Desert Point 2	027-36-1077	2/22/2007	0.00	126.64	27-402265	Ray Water Company	Non-Ag	Pima	8	45
Desert Point Estates	027-36-0644	8/31/2004	8.14	234.44	27-401319	Ray Water Company	Non-Ag	Pima	15	76
Desert View Plaza, Lots 1-7	027-36-1115	5/3/2007	0.00	323.60	27-500022	Ray Water Company	Non-Ag	Pima	17	7
Desert Vista Estates, Parcels 1 and 2	027-36-0126	10/21/1997	9.58	740.85	27-300361	Ray Water Company	Non-Ag	Pima	27	157
Desert Vista Terrace	027-36-0456	10/17/2002	22.63	576.80	27-400777	Ray Water Company	Non-Ag	Pima	34	183
Diablo Village Estates Lots 115-178, 209-222, 254-511	046-36-0775	7/20/2005	10.23	825.84	27-401606	Diablo Village Water Company	Non-Ag	Pima	83	336
Diablo Village Estates Townhouses, Lots 1-59 & Common Areas A & B	046-36-0705	12/23/2004	0.00	146.72	27-401520	Diablo Village Water Company	Non-Ag	Pima	6	59

Member Land Name	CAGRD ID	Date Member Joined	2009 Obligation (AF/yr)	Original Groundwater Allowance (AF/yr)	AWS Certificate ID	Water Provider	Previous Land Use	County	Acres	Total Lots
Drexel Manor	027-36-0470	2/25/2003	14.84	562.64	27-400841	Ray Water Company	Non-Ag	Pima	19	137
Duval Commerce Park	007-36-0086	8/28/1997	3.53	607.50	27-300244	Community Water Company of Green Valley	Non-Ag	Pima	25	15
Eagle Crest Ranch	047-35-0354	5/31/2001	88.42	4248.00	27-400387	Goodman Water Company	Non-Ag	Pinal	467	975
Eagle Point Estates	046-36-0431	2/7/2002	24.87	772.72	27-400664	Diablo Village Water Company	Non-Ag	Pima	151	274
Estates at La Cañada Norte, Lots 1-41	032-36-0546	9/19/2003	7.32	103.04	27-401012	Las Quintas Serenas Water Company	Non-Ag	Pima	18	41
Garden of Eden, Lots 1-18	009-36-0005	12/14/1995	5.35	100.50	27-300044	Lago Del Oro Water Company, Inc.	Non-Ag	Pima	20	18
Greens at Santa Rita Springs, 168-214	005-36-0063	1/29/1997	10.55	158.85	27-300233	Farmers Water Co.	Non-Ag	Pima	11	47
Greens at Santa Rita Springs, 226-234	005-36-0122	10/21/1997	2.10	32.55	27-300365	Farmers Water Co.	Non-Ag	Pima	3	9
Jacaranda Village at Tewa Trail	037-36-0602	5/5/2004	5.94	102.24	27-401179	Saguaro Water Company	Non-Ag	Pima	40	36
La Jolla Verde Commercial Center	007-36-1161	3/20/2008	0.00	377.76	27-700391	Community Water Company of Green Valley	Non-Ag	Pima	19	20
La Joya Verde II	007-36-0099	8/28/1997	8.70	460.00	27-300311	Community Water Company of Green Valley	Non-Ag	Pima	21	105
La Joya Verde III, Lots 1-226	007-36-0508	6/4/2003	25.41	921.92	27-400885	Community Water Company of Green Valley	Ag	Pima	48	226
La Joya Verde Rancho Abrego III, Lots 1 through 15 and Common Area "A"	007-36-1127	6/21/2007	0.00	38.32	27-700295	Community Water Company of Green Valley	Non-Ag	Pima	6	15
La Posada II	005-36-0341	1/12/2001	15.94	708.80	27-400365	Farmers Water Co.	Non-Ag	Pima	55	288

Member Land Name	CAGRD ID	Date Member Joined	2009 Obligation (AF/yr)	Original Groundwater Allowance (AF/yr)	AWS Certificate ID	Water Provider	Previous Land Use	County	Acres	Total Lots
Las Campanas Block F, Lots 1-93 & CA A & B	007-36-0382	6/17/2002	10.93	216.00	27-400455	Community Water Company of Green Valley	Non-Ag	Pima	27	93
Las Campanas Block H, Lots 1-84	007-36-0268	12/28/1999	10.58	328.20	27-400186	Community Water Company of Green Valley	Non-Ag	Pima	27	84
Las Campanas Block B, Lots 1-118 & Common Areas A & B	007-36-0661	9/10/2004	9.30	336.08	27-401398	Community Water Company of Green Valley	Non-Ag	Pima	20	118
Las Campanas Block L, Lots 1-67 & Common Area A	007-36-0643	8/17/2004	7.97	181.00	27-401317	Community Water Company of Green Valley	Non-Ag	Pima	19	67
Las Campanas Blocks D & E	007-36-0866	12/5/2005	16.82	625.60	27-401825	Community Water Company of Green Valley	Non-Ag	Pima	63	268
Las Campanas Village, Block M and the west half of Block N, Lots 1-219, and Common Areas A & B	007-36-0349	11/9/2000	23.48	454.00	27-400376	Community Water Company of Green Valley	Non-Ag	Pima	36	219
Las Campanas, Block G-2	007-36-0118	10/3/1997	11.57	482.94	27-300346	Community Water Company of Green Valley	Non-Ag	Pima	30	121
Las Campanas, Block C, Lots 1-283 and Common Area A	007-36-1149	8/24/2007	0.00	729.12	27-700275	Community Water Company of Green Valley	Ag	Pima	83	283
Las Campanas, Block G	007-36-0024	7/9/1996	9.70	323.60	27-300098	Community Water Company of Green Valley	Non-Ag	Pima	22	95

Member Land Name	CAGRD ID	Date Member Joined	2009 Obligation (AF/yr)	Original Groundwater Allowance (AF/yr)	AWS Certificate ID	Water Provider	Previous Land Use	County	Acres	Total Lots
Las Campanas, Block K	007-36-0013	4/15/1996	8.67	362.40	27-300082	Community Water Company of Green Valley	Non-Ag	Pima	21	113
Links at Santa Rita Springs	005-36-0080	3/19/1997	12.39	258.30	27-300266	Farmers Water Co.	Non-Ag	Pima	29	94
Los Arroyos Resubdivision, Lots 1-145 and 150-167 and Common Areas "A1-A3" & "B1-B2"	007-36-0933	5/12/2006	3.72	744.00	27-401975	Community Water Company of Green Valley	Non-Ag	Pima	46	163
Los Arroyos Del Este	007-36-0468	1/13/2003	55.89	1586.88	27-400808	Community Water Company of Green Valley	Ag	Pima	107	503
Madera Foothills Estates, Lots 1-25	005-36-0023	5/29/1996	5.48	109.50	27-300116	Farmers Water Co.	Non-Ag	Pima	110	25
Madera Foothills Estates, Lots 26-67 & CA A & B	005-36-0384	4/18/2001	5.03	104.00	27-400456	Farmers Water Co.	Non-Ag	Pima	169	42
Madera Highlands, Villages 1-10 and 15 and Common Areas "D", "E", and "F"	005-36-0969	8/11/2006	10.90	3341.04	27-402096	Farmers Water Co.	Ag	Pima	370	757
Madera Highlands, Villages 27 and 29 and Common Areas "D", "E", "F", and "G"	005-36-1151	8/31/2007	0.00	564.00	27-700354	Farmers Water Co.	Ag	Pima	140	119
Madera Highlands: Villages 11, 12, 13, 14 & 16 through 23	005-36-0783	4/15/2005	73.57	3700.00	27-401612	Farmers Water Co.	Ag	Pima	255	617
Madera Reserve Phase II, Lots 131-263 & Exp.	005-36-0028	7/30/1996	22.93	691.50	27-300142	Farmers Water Co.	Non-Ag	Pima	202	148

Member Land Name	CAGRD ID	Date Member Joined	2009 Obligation (AF/yr)	Original Groundwater Allowance (AF/yr)	AWS Certificate ID	Water Provider	Previous Land Use	County	Acres	Total Lots
Montanas Del Sol, Lots 1-49 & Common Area "A"	024-36-1122	5/24/2007	0.00	171.76	27-700264	Avra Water Co-op	Non-Ag	Pima	73	48
Mountain Cove Estates, Lots 1-18	010-36-0004	8/25/1995	5.85	87.00	27-300016	Metropolitan Domestic Water Improvement District	Non-Ag	Pima	22	18
Mountain Creek Ranch	039-36-0282	3/16/2000	5.76	1154.85	27-400201	Rincon Water Company	Non-Ag	Pima	156	64
Parcel E at Santa Rita Springs	005-36-0258	11/4/1999	4.60	195.00	27-400148	Farmers Water Co.	Ag	Pima	12	35
Pasadera	005-36-0350	11/28/2000	5.67	72.00	27-400380	Farmers Water Co.	Non-Ag	Pima	138	29
Paseo Tierra Townhomes	007-36-0252	10/7/1999	0.08	70.05	27-400131	Community Water Company of Green Valley	Non-Ag	Pima	2	18
Presidio at Santa Rita Springs (Lots 4-99) and Legends at Santa Rita Springs Lots 1-128	005-36-0143	5/27/1998	19.31	899.00	27-300424	Farmers Water Co.	Ag	Pima	59	252
Presidio Trail Lots 1-50 & Common Area "A-1" through "A-5" & "B-1"	113-36-0961	7/10/2006	0.00	134.16	27-402074	Halcyon Acres Annex No. 2 Water Co., Inc.	Non-Ag	Pima	11	50
Quail Creek, Phase II w/Golf Course	054-36-0447	8/22/2002	18.46	8142.40	27-400699	Quail Creek Water Company	Non-Ag	Pima	799	1504
Rancho Del Rio Estates, Lots 1-194 and Common Area "A"	024-36-0690	12/10/2004	0.00	682.72	27-401968	Avra Water Co-op	Non-Ag	Pima	217	185
Rancho Loma Alta	037-36-0573	12/26/2003	2.06	66.40	27-401121	Saguaro Water Company	Non-Ag	Pima	23	24
Red Rock Village 1	135-35-0984	8/28/2006	60.81	1733.20	27-402063	Red Rock Utilities, LLC	Non-Ag	Pinal	141	453
Red Rock Village 2	135-35-0983	2/23/2007	28.36	2444.08	27-402064	Red Rock Utilities, LLC	Non-Ag	Pinal	164	552
Red Rock Village IIA	135-35-0985	8/28/2006	2.49	56.80	27-402062	Red Rock Utilities, LLC	Non-Ag	Pinal	13	20
Red Rock Village III	135-35-1156	12/3/2007	0.00	300.24	27-700362	Red Rock Utilities, LLC	Non-Ag	Pinal	21	87
Red Rock Village IV	135-35-1120	5/10/2007	0.00	366.32	27-700237	Red Rock Utilities, LLC	Non-Ag	Pinal	22	105

Member Land Name	CAGRD ID	Date Member Joined	2009 Obligation (AF/yr)	Original Groundwater Allowance (AF/yr)	AWS Certificate ID	Water Provider	Previous Land Use	County	Acres	Total Lots
Red Rock Village V	135-35-1157	11/6/2007	0.00	351.44	27-700363	Red Rock Utilities, LLC	Non-Ag	Pinal	27	116
Rincon Trails	037-36-0394	10/11/2001	81.90	2593.00	27-400492	Saguaro Water Company	Non-Ag	Pima	364	505
SaddleBrooke Ranch w/Golf Course	001-35-0294	8/28/2000	15.59	23934.48	27-400263	Arizona Water Company	Non-Ag	Pinal	2520	5619
SaddleBrooke Unit 21	009-35-0383	4/13/2001	32.22	797.60	27-400413	Lago Del Oro Water Company, Inc.	Non-Ag	Pinal	172	214
SaddleBrooke Unit 51	009-35-0819	7/25/2005	0.00	228.72	27-401753	Lago Del Oro Water Company, Inc.	Non-Ag	Pinal	10	7
SaddleBrooke, Units 42-45 w/Golf Course	051-35-0393	4/26/2001	258.14	5062.16	27-400478	Ridgeview Utility Company	Non-Ag	Pinal	599	525
SaddleBrooke, Units 46-50	009-35-0410	10/1/2001	53.97	2016.00	27-400552	Lago Del Oro Water Company, Inc.	Non-Ag	Pinal	296	733
Sahuarita Acres	005-36-1089	12/21/2006	0.00	174.48	27-500023	Farmers Water Co.	Non-Ag	Pima	83	71
Sahuarita Highlands	005-36-0604	10/12/2004	3.47	415.76	27-401190	Farmers Water Co.	Non-Ag	Pima	642	153
San Ignacio Heights Resub	013-36-0083	5/22/1997	1.49	35.60	27-300275	Green Valley Domestic Water Improvement District	Non-Ag	Pima	5	11
San Ignacio Villas	013-36-0044	11/15/1996	2.39	124.50	27-300181	Green Valley Domestic Water Improvement District	Non-Ag	Pima	8	44
San Ignacio Vistas II, Lots 1-70, 117-118	013-36-0085	6/3/1997	7.98	296.85	27-300279	Green Valley Domestic Water Improvement District	Non-Ag	Pima	26	69
San Ignacio Vistas II, Lots 71-92, 119-128	013-36-0049	11/15/1996	2.78	88.50	27-300192	Green Valley Domestic Water Improvement District	Non-Ag	Pima	6	32
San Ignacio Vistas II, Phase 2, 129-258	013-36-0117	9/25/1997	14.93	539.40	27-300347	Green Valley Domestic Water Improvement District	Non-Ag	Pima	52	130

Member Land Name	CAGRD ID	Date Member Joined	2009 Obligation (AF/yr)	Original Groundwater Allowance (AF/yr)	AWS Certificate ID	Water Provider	Previous Land Use	County	Acres	Total Lots
Santa Cruz Meadows, Lots 1-239 and Common Areas A, B and C	032-36-1000	9/5/2006	0.15	1077.76	27-200311	Las Quintas Serenas Water Company	Non-Ag	Pima	65	239
Santa Rita Villas Lots 1-218, Block 1	007-36-1087	11/13/2006	8.79	383.60	27-500004	Community Water Company of Green Valley	Non-Ag	Pima	27	218
Santo Tomas Villas	007-36-0343	10/19/2000	40.29	1064.80	27-400369	Community Water Company of Green Valley	Non-Ag	Pima	117	354
Silver Moon Estates (Coronet Park 1)	027-36-0078	5/19/1997	4.94	242.00	27-300163	Ray Water Company	Non-Ag	Pima	9	40
Solar del Viejo, Lots 1-81, Common Areas A & B	013-36-0776	2/11/2005	10.78	213.20	27-401607	Green Valley Domestic Water Improvement District	Ag	Pima	138	81
Sonoran Ranch Estates	046-36-0530	11/17/2003	22.40	536.32	27-400971	Diablo Village Water Company	Non-Ag	Pima	126	209
Sonoran Ranch Estates II	046-36-0710	1/13/2005	19.42	1716.64	27-401525	Diablo Village Water Company	Non-Ag	Pima	155	572
Sonoran Ranch Villages	046-36-0537	11/17/2003	11.80	289.12	27-400994	Diablo Village Water Company	Non-Ag	Pima	22	110
Spanish Trail Estates	037-36-0505	4/24/2003	13.86	540.64	27-400871	Saguaro Water Company	Non-Ag	Pima	47	119
Springs II at Santa Rita	005-36-0113	10/21/1997	7.88	420.00	27-300344	Farmers Water Co.	Non-Ag	Pima	54	114
Stone House (The Reserve at Quail Creek)	054-36-0673	11/5/2004	2.53	677.20	27-401424	Quail Creek Water Company	Non-Ag	Pima	250	228
Sweetwater Canyon, Lots 1-46	119-36-1092	12/13/2006	0.00	155.76	27-500012	Lazy C Water Service	Non-Ag	Pima	188	46
Sycamore Park, Villages 1-7 and Common Area A-D	019-36-0671	10/27/2004	103.59	2576.48	27-401414	Voyager Water Company	Non-Ag	Pima	222	733

Member Land Name	CAGRD ID	Date Member Joined	2009 Obligation (AF/yr)	Original Groundwater Allowance (AF/yr)	AWS Certificate ID	Water Provider	Previous Land Use	County	Acres	Total Lots
The Estates at Canoa Ranch Lots 1-28	013-36-1215	5/27/2009	0.06	527.68	27-700615	Green Valley Domestic Water Improvement District	Ag	Pima	26	26
The Estates at Old Spanish Trail	037-36-0605	7/14/2004	0.10	320.96	27-401189	Saguaro Water Company	Non-Ag	Pima	162	115
The Estates at Tortolita Preserve by Garden Estates at Dove Mountain L.L.C.	058-36-0551	12/5/2003	0.21	64.48	27-400982	Tortolita Water Company, Inc.	Non-Ag	Pima	73	25
Tierra Linda Nueva	059-36-0563	12/24/2003	9.03	631.20	27-401063	Tierra Linda Homeowners Association	Non-Ag	Pima	205	190
Tucson Avra West, Lots 1-164 and 165-168	021-36-0046	2/11/1997	25.60	690.00	27-300234	Anway Manville L.L.C. Water Company	Non-Ag	Pima	298	243
Tucson Mountain Ranch, Lots 51-182	046-36-0377	1/23/2001	13.65	341.00	27-400442	Diablo Village Water Company	Non-Ag	Pima	276	132
Tucson Mountain Ranch	046-36-0344	8/31/2000	6.83	128.00	27-400503	Diablo Village Water Company	Non-Ag	Pima	13	50
Twin Lakes Subdivision, Lots 232-254	009-36-0107	7/11/1997	3.54	136.05	27-300307	Lago Del Oro Water Company, Inc.	Non-Ag	Pima	6	23
Vista del Sol, Lots 1-15 and Common Area 'A'	024-36-1091	1/17/2008	0.00	47.60	27-402258	Avra Water Co-op	Non-Ag	Pima	17	15
Voyager Homes Phase B, Lots 86-157 and Common Area A & B	019-36-0040	10/17/1996	7.26	135.00	27-300185	Voyager Water Company	Non-Ag	Pima	10	72
Voyager Homes, Phase C, Lots 158-231 (was Lots 158-235)	019-36-0123	12/11/1997	4.81	228.00	27-300359	Voyager Water Company	Non-Ag	Pima	10	74
Voyager Homes, Phase D, Lots 232-289 and CA A & B	019-36-0396	5/18/2001	5.18	63.00	27-400491	Voyager Water Company	Non-Ag	Pima	9	58
Whisper Ranch	037-36-0467	11/22/2002	10.66	164.16	27-400803	Saguaro Water Company	Non-Ag	Pima	49	46

Appendix 2

Non-GRD member subdivisions in the TAMA as of 2009

Central Arizona Groundwater Replenishment District Membership
in the Tucson Active Management Area
2005-2009

Appendix 2. Non-GRD member subdivisions in the TAMA as of 2009

Subdivision Name	Plat Book Page	Jurisdiction	Total Lots	Rec. Date
ALDEA DE PASCUA (1-11)	28081	PIMA	11	08/11/1977
ALLIED INDUSTRIAL ACRES (1-6)	18059	PIMA	6	11/30/1965
ALVORD ESTATES(1-22)	43079	COT	22	01/14/1991
ANNAJO ESTATES (1-10)	14094	PIMA	10	06/30/1960
ANTLER CREST ESTATES (1-145)	47067	PIMA	145	09/27/1995
ARIVACA	06069	PIMA	300	05/09/1949
AVRA FOOTHILLS ESTATES (1-16)	18031	PIMA	16	04/08/1985
BERRY ACRES (1-18)	17022	MAR	18	11/08/1963
BLACK EAGLE MOBILE MANOR (1)	23038	PIMA	1	06/28/1972
BLUFF CREEK (1-40)	64092	PIMA	40	10/22/2009
BROOKLYN HEIGHTS - SOUTH SIDE UNIVERSITY ADDITION	01011	COT	1	03/13/1900
BUELLS ADDITION, BLKS 13, 14, 15 RESUB.	04004	COT	1	06/09/1922
BULLHEAD PROPERTIES (1-3)	44020	SAH	3	12/29/1991
BULLHEAD PROPERTIES (1-3)	44020	SAH	3	12/29/1991
CANOA CANYON ESTATES (1-22)	39007	PIMA	22	08/14/1985
CANOA ESTATES (1-142)	38006	PIMA	142	10/15/1984
CANOA ESTATES II (1-125)	39091	PIMA	125	07/16/1986
CANOA HILLS TOWNHOMES (1-130)	39078	PIMA	130	06/09/1986
CANOA HILLS TOWNHOMES (65-143)	41056	PIMA	78	09/04/1987
CANOA NORTHWEST (167-328)	53081	PIMA	161	07/19/2000
CANOA RANCH BLKS. 1-45	54074	PIMA	0	05/08/2001
CANOA RANCH BLKS. 1-45	54074	PIMA	0	05/08/2001
CANOA RANCH BLKS. 1-45	54074	PIMA	0	05/08/2001
CANOA RIDGE (1-128)	39012	PIMA	128	09/26/1985
CANOA SECA ESTATES (1-170)	42038	PIMA	170	08/05/1988
CANOA SECA ESTATES (158-170)	43004	PIMA	13	07/11/1989
CANOA SECA ESTATES II (1-133)	43019	PIMA	133	10/09/1989
CANOA SECA ESTATES RESUBDIVISION (25- 70, 79-94)	43055	PIMA	61	06/06/1990
CANOA VISTAS (1-48)	39060	PIMA	48	03/24/1986
CANOA VISTAS II (1-46)	43008	PIMA	46	08/02/1989
CASA PRIMAVERA(1-242)	37061	PIMA	242	07/10/1984
CASITAS DEL VALLE II (1-34)	43052	PIMA	34	05/14/1990
CHAPARRAL ACRES (1-16)	22096	PIMA	16	04/11/1972
CHAPARRAL ESTATES NO. 1 (1-49)	22020	PIMA	49	09/29/1971
CHAPARRAL ESTATES NO. 2 (1-58)	22062	PIMA	58	01/24/1972
CIELITO LINDO	15080	PIMA	103	05/05/1961
CIELITO LINDO RESUB(105,107&109-114)	20061	PIMA	12	03/27/1970
CLARA VISTA DEL VALLE(1-21)	29018	PIMA	21	01/20/1978
COLONIA DE LOS ALAMOS	34051	PIMA	132	08/07/1981
COLONIA DE LOS ALAMOS	34051	PIMA	132	08/07/1981
COLONIA DE LOS ALAMOS(BK1-45)	26009	PIMA	45	03/15/1974
COLONIAS LA CANADA (1-82)	45045	SAH	82	11/17/1993
CONTINENTAL VISTAS(1-302)	26092	PIMA	302	11/22/1974
CONTINENTAL VISTAS(1-302)	26092	PIMA	302	11/22/1974
COPPER HILL ESTATES			0	

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CORONET PARK SUBD. NO. 1	13099	PIMA	200	07/09/1959
CORONET PARK SUBD. NO. 2	16005	PIMA	0	12/18/1961
CORONET PARK SUBD. NO. 2	16005	PIMA	0	12/18/1961
CORTINA VILLAS (1-14)	42088	PIMA	14	03/16/1989
CURLY HORN RANCHES	13033	PIMA	47	10/02/1958
CURLY HORN RANCHES NO. 2	13050	PIMA	37	12/29/1958
DATELAND(1-9)	12045	PIMA	9	06/14/1957
DAYTON ESTATES(1-11)	27035	PIMA	11	07/31/1975
DESERT CASITAS(1-120)	36005	PIMA	120	03/03/1983
DESERT HAVEN ADDITION (1-18)	14096	PIMA	18	07/07/1960
DESERT HILLS NO. 1 TOWNHOMES(1-23)	45085	PIMA	23	04/12/1994
DESERT RIDGE (1-98)	35073	PIMA	98	11/05/1982
DESERT RIDGE ESTATES RESUB (1-4)	63027	PIMA	4	11/14/2007
DESERT SPRINGS (BLK. 1-5)	51011	PIMA	0	06/05/1998
DESERT VIEW ADDITION	08076	PIMA	42	03/31/1948
DESERT VIEW EST. (1-9)	34017	PIMA	9	05/04/1981
DESERT VIEW ESTATES (1-14)	37087	PIMA	14	08/24/1984
DIABLO VILLAGE ESTATES (512-888)	29074	PIMA	376	07/11/1978
DIABLO VILLAGE ESTATES (BLK 1-3)	29075	PIMA	0	07/11/1978
DIAMOND BELL RANCH - TUCSON (1-229)	20002	PIMA	229	09/05/1969
DIAMOND BELL RANCH - TUCSON UNIT 10 (1-208)	21015	PIMA	208	12/14/1970
DIAMOND BELL RANCH - TUCSON UNIT 13 (1-216)	22025	PIMA	216	10/27/1971
DIAMOND BELL RANCH / TUCSON CHAPARRAL UNIT (1-24, 26-228)	20011	PIMA	226	10/08/1969
DIAMOND BELL RANCH TUCSON UNIT 5 (1-521)	20052	PIMA	521	02/16/1970
DRAKES ADDITION BLK 9 RESUB	03123	COT	1	01/05/1921
DUVAL 19 COMMERCIAL CENTER(1-8)	43037	SAH	8	12/22/1989
DUVAL COMMERCIAL(1-28)	36003	PIMA	28	03/23/1983
EAST SIDE ADDITION	03072	COT	1	11/07/1887
ENCANTO ESTATES(1-59)	41069	PIMA	59	10/09/1987
ESTRELLA SUBDIVISION	10075	PIMA	181	08/20/1954
ESTRELLA(143-149&180)	30099	PIMA	8	06/19/1979
ESTRELLA(143-149&180)	30099	PIMA	8	06/19/1979
FELIX SUBDIVISION(1-5)	26034	PIMA	5	06/03/1974
FRENORDA HAVEN ESTATES (1-22)	34046	PIMA	22	07/30/1981
GATEWAY COMMERCIAL CENTER (1-4)	40030	PIMA	4	10/08/1986
GOLDER RANCH COMMERCIAL CENTER (1-5)	59055	PIMA	5	04/21/2005
GOLEMBIESKI ADDITION (1-4)	30030	PIMA	4	12/04/1978
GREEN VALLEY ACRES(1-23)	17002	PIMA	23	07/17/1963
GREEN VALLEY ADULT RV RESORT(1-163)	38028	PIMA	163	12/18/1984
GREEN VALLEY ARCES NO.2(1-112)	19064	PIMA	112	02/04/1969
GREEN VALLEY COMMERCIAL BLOCK NO. 2(1-5)	26067	PIMA	5	10/08/1974
GREEN VALLEY COMMERCIAL BLOCK NO3(1-10)	27007	PIMA	10	02/07/1975
GREEN VALLEY COMMERCIAL BLOCK(1-8)	25016	PIMA	0	05/17/1973

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GREEN VALLEY COMMUNITY COMPLEX(1-11)	27022	PIMA	11	05/14/1975
GREEN VALLEY COMMUNITY COMPLEX(1-11)	27022	PIMA	11	05/14/1975
GREEN VALLEY COUNTRY CLUB ESTATES (1-154)	20029	PIMA	154	12/04/1969
GREEN VALLEY COUNTRY CLUB ESTATES (1-154)	20029	PIMA	154	12/04/1969
GREEN VALLEY COUNTRY CLUB ESTATES (155-376)	22024	PIMA	223	10/27/1971
GREEN VALLEY COUNTRY CLUB ESTATES II (377-381)	64036	PIMA	5	08/25/2008
GREEN VALLEY COUNTRY CLUB ESTATES II (377-381)	64036	PIMA	5	08/25/2008
GREEN VALLEY COUNTRY CLUB ESTATES II (377-381)	64036	PIMA	5	08/25/2008
GREEN VALLEY COUNTRY CLUB ESTATES(1-154)	20029	PIMA	154	12/04/1969
GREEN VALLEY COUNTRY CLUB ESTATES(155-376)	24035	PIMA	221	12/28/1972
GREEN VALLEY COUNTRY CLUB ESTATES(155-376)	24035	PIMA	221	12/28/1972
GREEN VALLEY COUNTRY CLUB ESTATES(155-376)	24035	PIMA	221	12/28/1972
GREEN VALLEY COUNTRY CLUB NORTH(1-145)	28026	PIMA	145	11/23/1976
GREEN VALLEY COUNTRY CLUB VISTAS NO.3(1-30)	29058	PIMA	30	05/08/1978
GREEN VALLEY COUNTRY CLUB VISTAS(1-229)	21047	PIMA	229	03/08/1971
GREEN VALLEY COUNTRY CLUB VISTAS(230-482)	22011	PIMA	252	09/08/1971
GREEN VALLEY COUNTRY CLUB VISTAS(230-482)	22011	PIMA	252	09/08/1971
GREEN VALLEY DESERT HILLS NO. 2(1-613)	29080	PIMA	613	07/27/1978
GREEN VALLEY DESERT HILLS NO. 4 RESUB (22-41)	35066	PIMA	19	09/30/1982
GREEN VALLEY DESERT HILLS NO.1(1-24)	32075	PIMA	24	06/27/1980
GREEN VALLEY DESERT HILLS NO.2(203-233,326-373,380-409,479-513)	33036	PIMA	150	11/05/1980
GREEN VALLEY DESERT HILLS NO.2(203-233,326-373,380-409,479-513)	33036	PIMA	150	11/05/1980
GREEN VALLEY DESERT HILLS NO.2(203-233,326-373,380-409,479-513)	33036	PIMA	150	11/05/1980
GREEN VALLEY DESERT HILLS NO.2(203-233,326-373,380-409,479-513)	33036	PIMA	150	11/05/1980
GREEN VALLEY DESERT HILLS NO.2(582-595)	31021	PIMA	13	07/27/1979
GREEN VALLEY DESERT HILLS NO.3(1-753)	31025	PIMA	753	08/20/1979
GREEN VALLEY DESERT HILLS NO.3(1-753)	31025	PIMA	753	08/20/1979
GREEN VALLEY DESERT HILLS NO.4 (1-224)	35047	PIMA	224	06/16/1982
GREEN VALLEY DESERT HILLS NO.5 (1-196)	32077	PIMA	196	06/27/1980
GREEN VALLEY DESERT HILLS NO.6(1-30)	37013	PIMA	30	03/02/1984
GREEN VALLEY DESERT MEADOWS NO.1(1-198)	22065	PIMA	198	01/28/1972

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GREEN VALLEY DESERT MEADOWS NO.2(1-209)	24002	PIMA	209	10/06/1972
GREEN VALLEY DESERT MEADOWS NO.3(1-223)	25073	PIMA	223	11/23/1973
GREEN VALLEY DESERT MEADOWS TOWNHOUSES(1-81)	27091	PIMA	81	06/01/1976
GREEN VALLEY DESERT MEADOWS TOWNHOUSES(82-197)	28027	PIMA	115	11/23/1976
GREEN VALLEY ESPERANZA ESTATES (101-205)	28083	PIMA	104	08/26/1977
GREEN VALLEY ESPERANZA ESTATES(1-100)	28004	PIMA	100	07/07/1976
GREEN VALLEY ESPERANZA ESTATES(206-258)	29088	PIMA	52	08/21/1978
GREEN VALLEY ESPERANZA ESTATES(259-368)	30053	PIMA	109	02/21/1979
GREEN VALLEY FAIRWAYS NO.2(236-474)	17097	PIMA	238	09/24/1964
GREEN VALLEY FAIRWAYS NO.3(475-763)	18051	PIMA	288	09/23/1965
GREEN VALLEY FAIRWAYS(1-235)	16094	PIMA	235	05/14/1963
GREEN VALLEY FAIRWAYS(1-235)	16094	PIMA	235	05/14/1963
GREEN VALLEY FARMS (1-17)	16081	PIMA	17	05/08/1963
GREEN VALLEY FARMS (1-17)	16081	PIMA	17	03/28/1963
GREEN VALLEY FOOTHILLS NO.2(1-60)	19065	PIMA	60	02/05/1969
GREEN VALLEY FOOTHILLS(1-16)	16082	PIMA	16	03/28/1963
GREEN VALLEY MEMORIAL GARDENS (BLKS. 1-8)	32055	SAH	0	05/13/1980
GREEN VALLEY MOBILE ESTATES (1-311)	22012	PIMA	311	09/13/1971
GREEN VALLEY MOBILE ESTATES (1-311)	22012	PIMA	311	09/13/1971
GREEN VALLEY MOBILE ESTATES II(1-16)	27008	PIMA	16	03/04/1975
GREEN VALLEY MOBILE ESTATES II(1-16)	27008	PIMA	16	03/04/1975
GREEN VALLEY MOBILE ESTATES II(1-16)	27008	PIMA	16	03/04/1975
GREEN VALLEY MOBILE ESTATES(1-24)	28055	PIMA	24	04/12/1977
GREEN VALLEY MOBILE ESTATES(1-24)	28055	PIMA	24	04/12/1977
GREEN VALLEY MOBILE ESTATES(1-24)	28055	PIMA	24	04/12/1977
GREEN VALLEY MOBILE ESTATES(312-437)	25045	PIMA	125	08/29/1973
GREEN VALLEY MOBILE ESTATES(438-568)	29035	PIMA	130	03/03/1978
GREEN VALLEY MORTUARY AND MEMORIAL GARDENS (BLKS 1-6)	63095	SAH	0	08/14/2006
GREEN VALLEY RESORT HOMES(1-168)	34076	PIMA	168	10/07/1981
GREEN VALLEY RV RESORT (1-304)	37039	SAH	304	05/17/1984
GREEN VALLEY SOUTH ACRES(1-73)	28059	PIMA	73	04/28/1977
GREEN VALLEY TOWNHOUSE 6B(1-7)	27050	PIMA	7	10/16/1975
GREEN VALLEY TOWNHOUSE NO.7(186-385)	29007	PIMA	199	11/18/1977
GREEN VALLEY TOWNHOUSES NO.3(1-258)	24093	PIMA	258	03/15/1973
GREEN VALLEY TOWNHOUSES NO.6(1-84)	25074	PIMA	84	11/23/1973
GREEN VALLEY TOWNHOUSES NO.7	26041	PIMA	185	06/14/1974
GREEN VALLEY VISTA(1-74)	18016	PIMA	74	12/30/1964
GREENWALD ACRES (BLKS 1 & 2)	13071	PIMA	16	03/18/1959
GREENWALD ACRES (BLKS 3-6)	13093	PIMA	32	06/22/1959
GREENWALD ACRES (BLKS 7 & 8)	14078	PIMA	16	05/17/1960
HALCYON ACRES	06040	COT	25	07/09/1932

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HALCYON ACRES ANNEX	08013	COT	6	01/10/1947
HALCYON ACRES ANNEX NO. 2	09039	COT	79	03/30/1950
HALCYON HIGHLANDS ESTATES (1-13)	35037	COT	13	05/17/1982
HAVEN GREEN VALLEY EAST(1-479)	26093	PIMA	479	11/26/1974
HAVEN GREEN VALLEY WEST(480-840,842-1153)	27075	PIMA	671	03/25/1976
HEDRICK ACREAGE NO. 1	03108	COT	13	06/23/1920
HEDRICK ACREAGE NO. 1	03108	COT	13	06/23/1920
HEDRICK ACREAGE NO. 1	03108	COT	13	06/23/1920
HEDRICK ACREAGE NO. 1	03108	COT	13	06/23/1920
HEDRICK ACREAGE NO. 1	03108	COT	13	06/23/1920
HELTON ADDITION (LOTS 1-17)	17062	PIMA	17	04/02/1964
HIGHLAND MANOR ADDITION (1-12)	14008	PIMA	12	08/03/1959
HIGHLAND RESUB OF DRAKES ADDITION	03005	COT	1	03/14/1908
HIGHPOINTE(1-32)	44087	PIMA	32	05/17/1993
HOWREY SUBDIVISION (1-6)	38075	PIMA	6	05/14/1985
HUNTLEY'S ADDITION	03103	COT	1	05/04/1920
JONATHAN PARK(1-8)	32091	PIMA	8	07/17/1980
KACHINA RIDGE ESTATES(BK1)	36033	PIMA	0	06/28/1983
KERLEY INDUSTRIAL PARK (1)	22064	PIMA	1	01/28/1972
LA CANADA DESERT HOMESITES(1-2)	20087	PIMA	2	08/07/1970
LA CANADA DESERT HOMESITES(3-4)	21073	PIMA	2	06/10/1971
LA CANADA NORTE (1-50)	43015	SAH	50	09/06/1989
LA CANADA NORTE II (51-119)	46054	SAH	68	11/08/1994
LA JOYA VERDE (1-75)	47006	SAH	75	04/28/1995
LA POSADA(1-2)	44031	PIMA	2	04/10/1992
LARIAT ESTATES NO. 2 (1-33)	19020	PIMA	33	02/13/1968
LAS CAMPANAS BLK. I (1-96)	47028	PIMA	96	06/26/1995
LAS CAMPANAS BLK. J (1-37)	47086	PIMA	37	07/23/1996
LAS CAMPANAS(A-N)	47017	PIMA	0	05/24/1995
LAS QUINTAS DE SANTO TOMAS	12094	SAH	30	04/21/1958
LAS QUINTAS SERENAS	12056	SAH	9	09/05/1957
LAS QUINTAS SERNAS (10-40)	13044	SAH	30	12/04/1958
LAZY C RANCH ESTATES NO. 2 (1-20)	15049	PIMA	20	01/26/1961
LOS ARROYOS (BLKS.1-5)	56074	SAH	0	12/18/2002
LOS ARROYOS CENTER (BLK. 1-5)	56071	SAH	5	12/18/2002
LOS ARROYOS DEL SUR (BLK. 1&2)	56073	SAH	0	12/18/2002
LOS RANCHITOS	07023	PIMA	22	03/05/1941
LOS RANCHITOS NUMBER 7	08071	PIMA	10	03/13/1948
LOS RANCHITOS NUMBER 8	09002	PIMA	12	10/14/1948
L-S ACRES	13017	PIMA	20	06/25/1958
MADERA CANYON TOWNHOUSES(1-43)	36054	PIMA	43	08/30/1983
MADERA PLAZA (1-34)	55023	PIMA	34	10/12/2001
MADERA RESERVE PHASE I(1-130)	47045	PIMA	130	08/08/1995
MADERA VISTA(1-85)	35001	PIMA	85	12/30/1981
MADERA VISTA(86-104)	35093	PIMA	18	02/08/1983
MADERA VISTA(86-104)	35093	PIMA	18	02/08/1983
MADERA VISTA(86-104)	35093	PIMA	18	02/08/1983
MAERA MARKETPLACE (1-13)	63088	SAH	13	07/18/2008

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MAGI ESTATE(1-20)	38008	PIMA	20	10/15/1984
MARANA VISTA (109-186)	42048	PIMA	73	09/16/1988
MARANA VISTA (109-186)	42048	PIMA	73	09/16/1988
MARANA VISTA (109-186)	42048	PIMA	73	09/16/1988
MARSHALL PARK(1-9)	13087	PIMA	9	06/02/1959
MCAFEE SUBDIVISION (1-12)	21074	PIMA	12	06/10/1971
McCRAY ADDITION (1-25)	23098	PIMA	25	10/03/1972
MESALAND	11065	PIMA	1	12/20/1955
MESALAND ANNEX(102-135)	11100	PIMA	33	08/30/1956
MESALAND(1-63)	11072	PIMA	63	03/09/1956
MESQUITE HEIGHTS (1-42)	45091	SAH	42	04/19/1994
MILLSTONE MANOR NO. 4	10064	PIMA	30	06/03/1954
MILTON MANOR(1-24)	14086	PIMA	24	06/13/1960
MIRA BELL (1-40)	31033	PIMA	40	08/31/1979
MIRAVAL BLOCKS 1-5	62054	PIMA	0	05/07/2007
MONTANA VISTA	13059	PIMA	121	02/06/1959
MONTANA VISTA NO.2	13088	PIMA	80	06/02/1959
MONTANA VISTA NO.2	13088	PIMA	80	06/02/1959
MONTANA VISTA NO.2	13088	PIMA	121	06/02/1959
MONTANA VISTA NO.2	13088	PIMA	121	06/02/1959
MORTIMORE ADDITION	10013	COT	282	12/04/1952
MOSSMAN-MASTERSON WRHS CONDS (1-24)	39090	PIMA	24	07/16/1986
MOUNT LEMMON ESTATES #1 (1-31)	14035	PIMA	31	12/31/1959
MOUNT LEMMON ESTATES #2 (1-22)	14036	PIMA	22	12/31/1959
MOUNTAIN VIEW ACRES (1-12)	27076	SAH	12	04/06/1976
MOUNTAIN VISTA ESTATES (1-38)	25049	PIMA	38	09/10/1973
OCOTILLO PRESERVE (1-42)	60020	PIMA	42	08/26/2005
OCOTILLO RANCHES (1-44)	13011	PIMA	44	06/13/1958
OCOTILLO RANCHES (1-44)	13011	PIMA	44	06/13/1958
OCOTILLO RANCHES NO. 2 (1-19)	13028	PIMA	19	08/08/1958
OLD WEST RANCHETTES (1-41)	22098	PIMA	41	04/11/1972
OLD WEST RANCHETTES (42-104)	23032	PIMA	62	06/15/1972
OLIVE HILL / UNIVERSITY TERRACE	02017	COT	1	04/05/1905
ORO HEIGHTS (1-26)	23090	PIMA	26	09/08/1972
PALO VERDE COMMERCE CENTER(RESUB)(1-11)	36083	PIMA	11	12/27/1983
PARK CENTRE (1-180)	41019	PIMA	180	04/22/1987
PART OF RINCON HEIGHTS	03106	COT	1	05/20/1920
PICTURE ROCKS ESTATES (1-20, 22-24)	21091	PIMA	23	07/27/1971
PICTURE ROCKS WEST (1-65)	47002	PIMA	65	04/13/1995
PLUMER & STEWARD'S ADDITION	02013	COT	205	10/24/1904
PORTILLA RIDGE(1-143)	47023	PIMA	143	06/06/1995
PORTILLO HILLS II(1-29)	45010	PIMA	29	08/04/1993
PORTILLO HILLS II(30-88)	45049	PIMA	58	11/23/1993
PORTILLO HILLS(1-39)	43093	PIMA	39	05/08/1991
PORTILLO PLACE(1-28)	47011	PIMA	28	05/10/1995
PRINCE ROAD TERRACE	13036	COT	35	10/16/1958
PUEBLO ALEGRE ESTATES (1)	40095	PIMA	1	03/05/1987
QUAIL CREEK (1-306)	43039	SAH	306	01/31/1990

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QUAIL CREEK II (1-30) BLK. 19 & 55	57004	SAH	30	03/28/2003
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-77)	53086	SAH	77	08/10/2000
QUAIL CREEK II (78-394)	54027	SAH	316	12/07/2000
QUAIL CREEK II UNIT 11 (1-119)	55075	SAH	119	03/28/2002
QUAIL CREEK II UNIT 12 (1-43)	60024	SAH	43	09/16/2005
QUAIL CREEK II UNIT 14 (1-105)	55077	SAH	105	03/28/2002
QUAIL CREEK II UNIT 15 (1-120)	60023	SAH	120	09/16/2005
QUAIL CREEK II UNIT 16 (1-114)	55062	SAH	114	02/26/2002
QUAIL CREEK II UNIT 17 (1-112)	57007	SAH	112	04/02/2003
QUAIL CREEK II UNIT 18 (1-36)	55061	SAH	36	02/22/2002
QUAIL CREEK II UNIT 19 (1-109)	59007	SAH	109	11/10/2004
QUAIL CREEK II UNIT 22 (1-129)	63019	SAH	129	10/25/2007
QUAIL CREEK II UNIT 23 (1-96)	59024	SAH	96	01/06/2005
QUAIL CREEK II UNIT 24 (1-68)	60058	SAH	68	12/15/2005
QUAIL CREEK II UNIT 26(1-56)	57033	SAH	56	06/11/2003
QUAIL CREEK II UNIT 26(1-56)	57033	SAH	56	06/11/2003
QUAIL CREEK II UNIT 5 (1-34)	61062	SAH	34	08/25/2006
QUAIL CREEK II UNIT 9 (1-97)	55076	SAH	97	03/28/2002
QUAIL CREEK II UNITS 20 & 21	61063	SAH	175	08/25/2006
QUINTA SAN IGNACIO (1-21)	18082	PIMA	21	09/19/1966
QUINTA SAN IGNACIO (1-21)	18082	PIMA	21	09/19/1966
RAIL N RANCH NO. 1 (1-21)	22049	PIMA	21	12/27/1971
RANCH ACRES ESTATES (1-52)	21069	PIMA	52	05/24/1971
RANCH ACRES NO. 2 (1-16)	23003	PIMA	16	04/19/1972
RANCHITA AVRA (1-60)	40071	PIMA	60	01/07/1987
RANCHO BUENA VISTA (1-29)	43062	SAH	29	08/24/1990
RANCHO BUENA VISTA (30-69)	44054	SAH	39	10/22/1992
RANCHO DEL NORTE (1-57)	21070	PIMA	57	05/24/1971
RANCHO DEL NORTE NO. 2 (1-29)	23088	PIMA	29	09/08/1972
RANCHO DESPOBLADO ESTATES(1-10)	12007	PIMA	10	11/07/1956
RAY SUBDIVISION	09095	PIMA	71	03/15/1952
RAY SUBDIVISION	22037	PIMA	218	11/19/1971
RILLITO VISTA (1-60)	21076	PIMA	60	06/10/1971
RINCON DESERT ESTATES (1-47)	16087	PIMA	47	04/15/1963
RINCON DESERT ESTATES (1-47)	16087	PIMA	47	04/15/1963
RINCON DESERT ESTATES (1-47)	16087	PIMA	47	04/15/1963
RINCON HEIGHTS	03089	COT	42	11/26/1919
RINCON RANCH ESTATES NO. 1	08008	PIMA	17	12/18/1946
RINCON VALLEY ESTATES (1-15)	34005	PIMA	15	04/08/1981
ROADHAVEN RESORTS INC. GREEN VALLEY(1-425)	37004	PIMA	425	02/17/1984
ROSEDALE ACRES	10034	COT	20	07/31/1953

Subdivision Name	Plat Book Page	Jurisdiction	Total Lots	Rec. Date
ROSS ACRES	08065	COT	33	02/04/1948
SADDLEBROOKE TRACTS A, B, AND C			0	
SADDLEBROOKE UNIT EIGHT			0	
SADDLEBROOKE UNIT EIGHT A			0	
SADDLEBROOKE UNIT EIGHTEEN (AMD)			0	
SADDLEBROOKE UNIT EIGHTEEN (AMENDED)			0	
SADDLEBROOKE UNIT ELEVEN			0	
SADDLEBROOKE UNIT FIFTEEN			0	
SADDLEBROOKE UNIT FIVE			0	
SADDLEBROOKE UNIT FOUR			0	
SADDLEBROOKE UNIT FOURTEEN			0	
SADDLEBROOKE UNIT NINE			0	
SADDLEBROOKE UNIT NINETEEN (AMD)			0	
SADDLEBROOKE UNIT ONE			0	
SADDLEBROOKE UNIT ONE-A			0	
SADDLEBROOKE UNIT SEVEN			0	
SADDLEBROOKE UNIT SEVENTEEN			0	
SADDLEBROOKE UNIT SIX			0	
SADDLEBROOKE UNIT SIXTEEN			0	
SADDLEBROOKE UNIT TEN			0	
SADDLEBROOKE UNIT TEN A			0	
SADDLEBROOKE UNIT THIRTY			0	
SADDLEBROOKE UNIT THIRTY FIVE			0	
SADDLEBROOKE UNIT THIRTY FIVE (AMD)			0	
SADDLEBROOKE UNIT THIRTY FIVE A (AMD)			0	
SADDLEBROOKE UNIT THIRTY ONE			0	
SADDLEBROOKE UNIT THIRTY SIX			0	
SADDLEBROOKE UNIT THIRTY SIX A			0	
SADDLEBROOKE UNIT THIRTY THREE			0	
SADDLEBROOKE UNIT THIRTY TWO			0	
SADDLEBROOKE UNIT THIRTY TWO A			0	
SADDLEBROOKE UNIT THREE PHASE I			0	
SADDLEBROOKE UNIT THREE PHASE II			0	
SADDLEBROOKE UNIT THREE PHASE III			0	
SADDLEBROOKE UNIT THREE PHASE IV			0	
SADDLEBROOKE UNIT TWELVE			0	
SADDLEBROOKE UNIT TWENTY (AMD)			0	
SADDLEBROOKE UNIT TWENTY EIGHT			0	
SADDLEBROOKE UNIT TWENTY FIVE			0	
SADDLEBROOKE UNIT TWENTY FOUR			0	
SADDLEBROOKE UNIT TWENTY NINE			0	
SADDLEBROOKE UNIT TWENTY SEVEN			0	
SADDLEBROOKE UNIT TWENTY THREE			0	
SADDLEBROOKE UNIT TWENTY TWO			0	
SADDLEBROOKE UNIT TWO			0	
SAFEWAY AT SAHUARITA CENTER	57084	SAH	5	12/19/2003
SAGUARO SHADOWS (1-24)	24019	PIMA	24	11/17/1972
SAHUARITA PALMS PLAZA BLKS 1-4	62040	SAH	0	03/29/2007

Subdivision Name	Plat Book Page	Jurisdiction	Total Lots	Rec. Date
SAHUARITA SANTA RITA ROAD ANNEXATION 2008-11	64018	SAH	0	10/31/2008
SALLY'S ALLEY	13066	PIMA	14	05/03/1959
SAMANIEGO ESTATES (1-20)	34087	PIMA	20	11/18/1981
SAN IGNACIO GOLF ESTATES(1-46)	44076	PIMA	46	04/13/1993
SAN IGNACIO GOLF ESTATES(47-108)	45038	PIMA	61	10/21/1993
SAN IGNACIO HEIGHTS(136-156)	44058	PIMA	20	11/04/1992
SAN IGNACIO HEIGHTS(1-92)	43076	PIMA	92	12/21/1990
SAN IGNACIO HEIGHTS(93-135)	44001	PIMA	32	08/21/1991
SAN IGNACIO RIDGE ESTATES (1-115)	45073	PIMA	115	03/07/1994
SAN IGNACIO RIDGE ESTATES (1-115)	45073	PIMA	115	03/07/1994
SAN IGNACIO RIDGE ESTATES(116-185)	46028	PIMA	69	08/09/1994
SAN IGNACIO RIDGE ESTATES(20-28,35-58,103-115)	46023	PIMA	43	07/22/1994
SAN IGNACIO RIDGE ESTATES(20-28,35-58,103-115)	46023	PIMA	43	07/22/1994
SAN IGNACIO VISTAS (1-223)	46075	PIMA	223	01/09/1995
SAN IGNACIO VISTAS(101-113,224-228)	47053	PIMA	16	08/24/1995
SAN PEDRO ESTATES (1-23)	56076	PIMA	23	12/20/2002
SANTA RITA SPRINGS (1-5)	54054	PIMA	5	03/06/2001
SANTA RITA SPRINGS (BLKS. 1-6)	50069	PIMA	0	12/09/1997
SANTA RITA SPRINGS (BLKS. 1-6)	50069	PIMA	0	12/09/1997
SANTO TOMAS DEL NORTE (1-28)	18090	SAH	28	12/22/1966
SANTO TOMAS DEL NORTE (29-52)	18098	SAH	23	06/23/1967
SANTO TOMAS DEL NORTE (53-80)	19014	SAH	27	01/18/1968
SANTO TOMAS DEL NORTE (53-80)	19014	SAH	27	01/18/1968
SANTO TOMAS DEL NORTE (81-112)	19029	SAH	31	04/05/1968
SANTO TOMAS DEL NORTE (81-112)	19029	SAH	31	04/05/1968
SANTO TOMAS VILLAGE (1-37)	18045	SAH	37	07/22/1965
SIERRITA SUBDIVISION(1-3)	27030	PIMA	3	07/29/1975
SKY LINE RANCHOS	10073	PIMA	91	08/17/1954
ST. KATHERINE COURT	12068	PIMA	14	11/02/1957
STEFAN ACRES (1-4)	64081	COT	4	09/11/2009
STEFAN ESTATES (1-5)	30011	COT	5	10/17/1978
STONE HOUSE PHASE I (1-63)	59038	SAH	63	03/03/2005
SUMMERHAVEN	04099	PIMA	0	09/30/1926
SUMMIT (LOTS 1, 2, 16-21)	18056	PIMA	7	11/08/1965
SUNHAVEN OF TUCSON (1-201)	25055	PIMA	201	09/12/1973
SUNRISE POINTE (1-135)	46087	PIMA	135	02/08/1995
SUNRISE POINTE (1-135)	46087	PIMA	135	02/08/1995
SUNRISE POINTE VISITAS PHASE ONE(1-106)	48034	PIMA	106	05/02/1996
THE GREENS AT SANTA RITA SPRINGS(1-167)	47087	PIMA	167	12/12/1995
THE LARIAT ESTATES	14079	PIMA	99	05/17/1960
THE QUORUM (1-13)	38016	SAH	13	10/30/1984
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996

Subdivision Name	Plat Book Page	Jurisdiction	Total Lots	Rec. Date
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THUNDERHEAD HOME SITE & HORSE (1-10)	52030	PIMA	10	04/28/1999
THUNDERHEAD RANCH (1-56)	32063	PIMA	56	06/03/1980
TRAILERANCHO ESTATES (1-4)	21049	PIMA	4	03/08/1971
TRAILS WEST COMMERCIAL CENTER	51080	COT	6	01/12/1999
TRILBY TERRACE (1-10)	14009	PIMA	10	08/04/1959
TUCSON GREEN VALLEY UNIT NO. 2 BLOCK 14 TOWNHOUSE APARTMENT NO. 4	19023	PIMA	0	02/19/1968
TUCSON GREEN VALLEY UNIT NO.1	16076	PIMA	0	03/06/1963
TUCSON GREEN VALLEY UNIT NO.1	16076	PIMA	0	03/06/1963
TURNER ACRES (1-20)	08055	PIMA	20	11/24/1947
TWIN LAKES (1-148)	17070	PIMA	148	05/07/1964
TWIN LAKES (1-148)	17070	PIMA	148	05/07/1964
TWIN LAKES (149-162)	35089	PIMA	13	01/25/1983
TWIN LAKES (163-193)	43006	PIMA	30	08/02/1989
TWIN LAKES (194-231)	43051	PIMA	37	04/24/1990
TWIN LAKES MOBILE ESTATES (22-67)	23004	PIMA	47	04/24/1972
UNIT 3 QUAIL CREEK II (1-34)	54098	SAH	34	08/09/2001
UNIVERSITY TERRACE RESUB.	04086	COT	1	12/14/1925
VALENCIA/KOLB PROPERTY, BLOCKS 1-3	65017	PIMA	0	05/18/2010
VALLE DEL SOL (1-13)	32041	SAH	13	04/15/1980
VALLE VERDE DEL NORTE (101-105)	38002	SAH	5	09/25/1984
VALLE VERDE DEL NORTE (1-100)	24021	SAH	100	11/20/1972
VALLE VERDE(1-88)	48023	PIMA	88	03/13/1996
VALLEY LANE TOWNHOMES (135-169)	51048	PIMA	34	09/21/1998
VILLAS HERMOSA (1-8)	47082	PIMA	8	11/22/1995
VILLAS SANTA RITA(1-55)	32088	PIMA	55	07/02/1980
VISTA LAS CATALINAS NO. 1	09072	PIMA	52	07/19/1951
VISTA LAS CATALINAS NO. 2	10076	PIMA	33	09/01/1954
VOYAGER HOMES PHASE "A" (1-85)	47030	COT	85	06/27/1995
WESTWAY HOMESITES	14049	PIMA	101	03/11/1960
WINTER FAIR (1-18)	19073	COT	18	03/11/1969
WINTER FAIR (19-31)	20046	COT	12	02/04/1970
WINTERHAVEN	09008	COT	260	12/13/1948
WINTERHAVEN EAST CONDOS.	35048	COT	1	06/23/1982
WINTERHAVEN TOWNHOMES (1-85)	36079	COT	85	12/16/1983
WRANGLER RANCHES (1-56)	13081	PIMA	56	05/05/1959
WRANGLER RANCHES NO. 2	14005	PIMA	88	07/14/1959

Appendix 3

Non-GRD member subdivisions built 1995-2009

Central Arizona Groundwater Replenishment District Membership
in the Tucson Active Management Area
2005-2009

Appendix 3. Non-GRD member subdivisions built 1995-2009

Subdivision Name	Plat Book Page	Jurisdiction	Total Lots	Rec. Date
SAN IGNACIO VISTAS (1-223)	46075	PIMA	223	01/09/1995
SUNRISE POINTE (1-135)	46087	PIMA	135	02/08/1995
SUNRISE POINTE (1-135)	46087	PIMA	135	02/08/1995
PICTURE ROCKS WEST (1-65)	47002	PIMA	65	04/13/1995
LA JOYA VERDE (1-75)	47006	SAH	75	04/28/1995
PORTILLO PLACE(1-28)	47011	PIMA	28	05/10/1995
LAS CAMPANAS(A-N)	47017	PIMA	0	05/24/1995
PORTILLA RIDGE(1-143)	47023	PIMA	143	06/06/1995
LAS CAMPANAS BLK. I (1-96)	47028	PIMA	96	06/26/1995
VOYAGER HOMES PHASE "A" (1-85)	47030	COT	85	06/27/1995
MADERA RESERVE PHASE I(1-130)	47045	PIMA	130	08/08/1995
SAN IGNACIO VISTAS(101-113,224-228)	47053	PIMA	16	08/24/1995
ANTLER CREST ESTATES (1-145)	47067	PIMA	145	09/27/1995
VILLAS HERMOSA (1-8)	47082	PIMA	8	11/22/1995
THE GREENS AT SANTA RITA SPRINGS(1-167)	47087	PIMA	167	12/12/1995
VALLE VERDE(1-88)	48023	PIMA	88	03/13/1996
SUNRISE POINTE VISITAS PHASE ONE(1-106)	48034	PIMA	106	05/02/1996
LAS CAMPANAS BLK. J (1-37)	47086	PIMA	37	07/23/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
THE SPRINGS AT SANTA RITA(426-464)	49007	PIMA	38	12/17/1996
SANTA RITA SPRINGS (BLKS. 1-6)	50069	PIMA	0	12/09/1997
SANTA RITA SPRINGS (BLKS. 1-6)	50069	PIMA	0	12/09/1997
DESERT SPRINGS (BLK. 1-5)	51011	PIMA	0	06/05/1998
VALLEY LANE TOWNHOMES (135-169)	51048	PIMA	34	09/21/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
QUAIL CREEK II (1-34)	51058	SAH	34	10/27/1998
TRAILS WEST COMMERCIAL CENTER	51080	COT	6	01/12/1999
THUNDERHEAD HOME SITE & HORSE (1-10)	52030	PIMA	10	04/28/1999
CANOA NORTHWEST (167-328)	53081	PIMA	161	07/19/2000
QUAIL CREEK II (1-77)	53086	SAH	77	08/10/2000
QUAIL CREEK II (78-394)	54027	SAH	316	12/07/2000
SANTA RITA SPRINGS (1-5)	54054	PIMA	5	03/06/2001
CANOA RANCH BLKS. 1-45	54074	PIMA	0	05/08/2001
CANOA RANCH BLKS. 1-45	54074	PIMA	0	05/08/2001
CANOA RANCH BLKS. 1-45	54074	PIMA	0	05/08/2001

Subdivision Name	Plat Book Page	Jurisdiction	Total Lots	Rec. Date
UNIT 3 QUAIL CREEK II (1-34)	54098	SAH	34	08/09/2001
MADERA PLAZA (1-34)	55023	PIMA	34	10/12/2001
QUAIL CREEK II UNIT 18 (1-36)	55061	SAH	36	02/22/2002
QUAIL CREEK II UNIT 16 (1-114)	55062	SAH	114	02/26/2002
QUAIL CREEK II UNIT 14 (1-105)	55077	SAH	105	03/28/2002
QUAIL CREEK II UNIT 9 (1-97)	55076	SAH	97	03/28/2002
QUAIL CREEK II UNIT 11 (1-119)	55075	SAH	119	03/28/2002
LOS ARROYOS (BLKS.1-5)	56074	SAH	0	12/18/2002
LOS ARROYOS DEL SUR (BLK. 1&2)	56073	SAH	0	12/18/2002
LOS ARROYOS CENTER (BLK. 1-5)	56071	SAH	5	12/18/2002
SAN PEDRO ESTATES (1-23)	56076	PIMA	23	12/20/2002
QUAIL CREEK II (1-30) BLK. 19 & 55	57004	SAH	30	03/28/2003
QUAIL CREEK II UNIT 17 (1-112)	57007	SAH	112	04/02/2003
QUAIL CREEK II UNIT 26(1-56)	57033	SAH	56	06/11/2003
QUAIL CREEK II UNIT 26(1-56)	57033	SAH	56	06/11/2003
SAFEWAY AT SAHUARITA CENTER	57084	SAH	5	12/19/2003
QUAIL CREEK II UNIT 19 (1-109)	59007	SAH	109	11/10/2004
QUAIL CREEK II UNIT 23 (1-96)	59024	SAH	96	01/06/2005
STONE HOUSE PHASE I (1-63)	59038	SAH	63	03/03/2005
GOLDER RANCH COMMERCIAL CENTER (1-5)	59055	PIMA	5	04/21/2005
OCOTILLO PRESERVE (1-42)	60020	PIMA	42	08/26/2005
QUAIL CREEK II UNIT 12 (1-43)	60024	SAH	43	09/16/2005
QUAIL CREEK II UNIT 15 (1-120)	60023	SAH	120	09/16/2005
QUAIL CREEK II UNIT 24 (1-68)	60058	SAH	68	12/15/2005
GREEN VALLEY MORTUARY AND MEMORIAL GARDENS (BLKS 1-6)	63095	SAH	0	08/14/2006
QUAIL CREEK II UNITS 20 & 21	61063	SAH	175	08/25/2006
QUAIL CREEK II UNIT 5 (1-34)	61062	SAH	34	08/25/2006
SAHUARITA PALMS PLAZA BLKS 1-4	62040	SAH	0	03/29/2007
MIRAVAL BLOCKS 1-5	62054	PIMA	0	05/07/2007
QUAIL CREEK II UNIT 22 (1-129)	63019	SAH	129	10/25/2007
DESERT RIDGE ESTATES RESUB (1-4)	63027	PIMA	4	11/14/2007
MAERA MARKETPLACE (1-13)	63088	SAH	13	07/18/2008
GREEN VALLEY COUNTRY CLUB ESTATES II (377-381)	64036	PIMA	5	08/25/2008
GREEN VALLEY COUNTRY CLUB ESTATES II (377-381)	64036	PIMA	5	08/25/2008
GREEN VALLEY COUNTRY CLUB ESTATES II (377-381)	64036	PIMA	5	08/25/2008
SAHUARITA SANTA RITA ROAD ANNEXATION 2008-11	64018	SAH	0	10/31/2008
STEFAN ACRES (1-4)	64081	COT	4	09/11/2009
BLUFF CREEK (1-40)	64092	PIMA	40	10/22/2009